



400 Seventh Street, S.W.  
Washington, D.C. 20590

U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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AUTO SAFETY HOTLINE  
(800) 424-9393  
Wash. D.C. Area 366-0123



## CASE SUMMARY

PSU 07 CASE NO. 107E TYPE OF ACCIDENT truck - car - car - car / van  
end

### A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

(Provide a summary of the accident sequence as well as any particular event of the accident that is noteworthy. Injury mechanism and vehicle crashworthiness is the focus, not driver culpability. Do not include any personal identifiers. Use reverse side if needed.)

All four vehicles were traveling north on an inter-state roadway. V<sub>2</sub>, V<sub>3</sub> & V<sub>4</sub> were stopped in the (L) lane of traffic. D<sub>1</sub> lost control of vehicle as he attempted to stop V<sub>1</sub>. D<sub>1</sub> then steered (L) to avoid a collision with the vehicle in front of him. The (R) rear side of the tractor struck the rear end of V<sub>2</sub>. The front of V<sub>2</sub> was pushed into the rear of V<sub>3</sub>, pushing the front of V<sub>3</sub> into the rear of V<sub>4</sub>. V<sub>1</sub> jackknifed & came to rest facing west in the (over)

### B. VEHICLE PROFILE(S)

Vehicle No.	Class of Vehicle	Year/Make/Model	Most Severe Damage		Component Failure
			Damage Plane	Severity Description	
01	Tractor & Trailer	'87 GMC - 7000	RIGHT	MODERATE	NONE
02	Subcompact	'88 Dodge Shadow	Rear	Severe	None
03	Subcompact	'87 Ford Tempo	Rear	Severe	None
04	Subcompact	'82 Subaru GL	Rear	Light	None

### C. PERSON PROFILE(S)

Vehicle No.	Person Role	Seat Position	Restraint Use	Most Severe Injury			
				Body Region	Lesion	AIS	Injury Source
02	Driver	Fr. Left	LAP/Shoulder	-Injured	- Details unk.	unk.	_____
03	Driver	Fr. Left	LAP/Shoulder	- Injured	- Details unk.	unk.	_____

DO NOT SANITIZE THIS FORM

grass median.  $V_2, V_3 + V_4$  came to rest at impact.



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

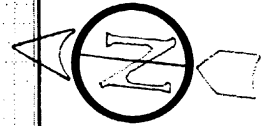
NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

## ACCIDENT COLLISION DIAGRAM

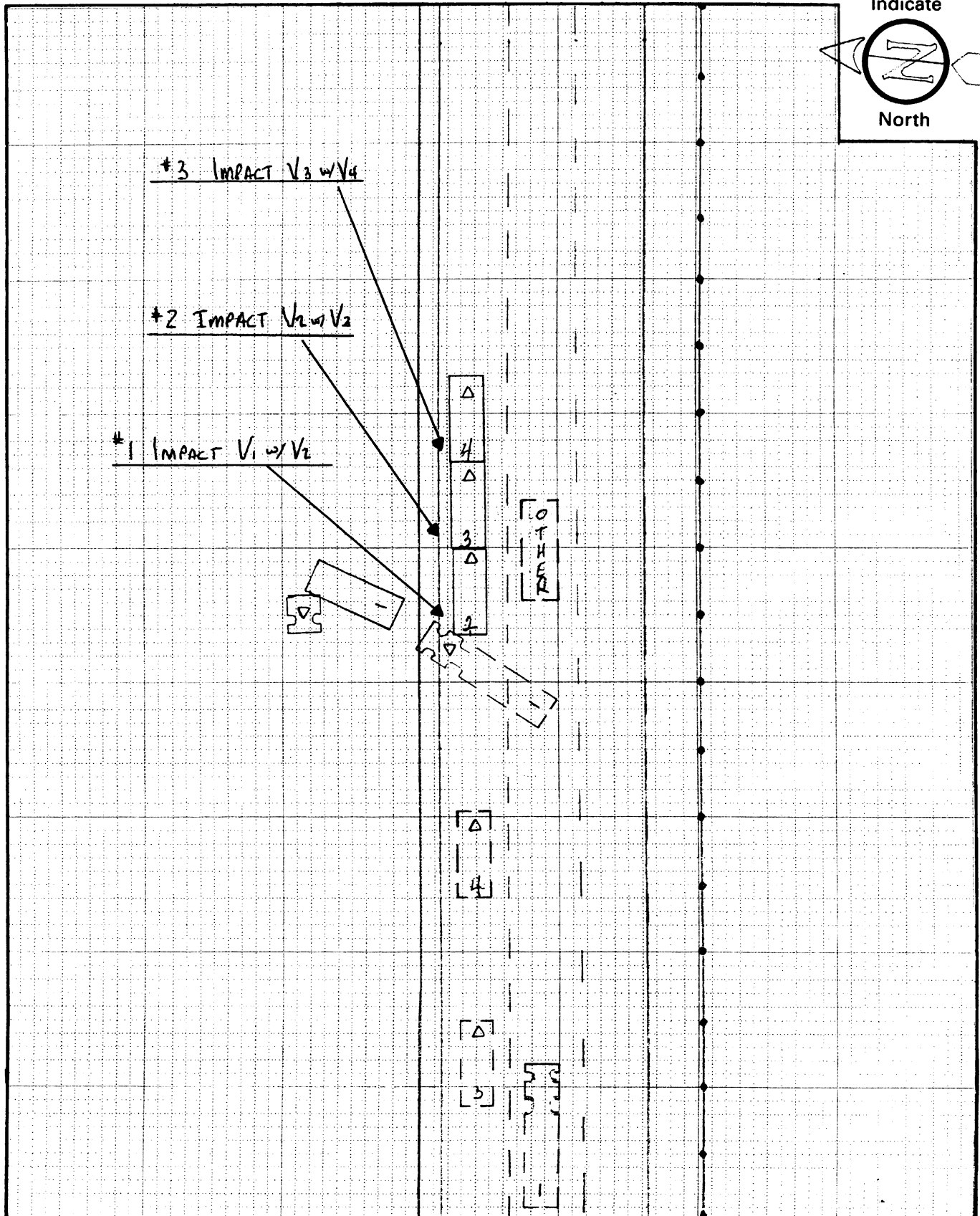
PSU No. 07

Case Number - Stratum 107E

Indicate



North







U.S. Department of Transportation  
National Highway Traffic Safety  
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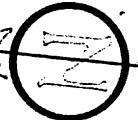
NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

## ACCIDENT COLLISION DIAGRAM

PSU No. 07

Case Number - Stratum 107E

Indicate



North

#3 IMPACT  $V_3$  w/  $V_4$

#2 IMPACT  $V_2$  w/  $V_3$

#1 IMPACT  $V_1$  w/  $V_2$



OTHER

$V_1 = 28^\circ$   
 $V_2 = 48^\circ 40'$



NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

HS Form 431A (1/90)

[illegible]

PSU NUMBER

07

CASE NUMBER

101E

# ACCIDENT FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

☒ ENTIRE FORM

☐ PAGE NUMBER (S) \_\_\_\_\_



NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	<u>07</u>	3. Vehicle Number	<u>07</u>
2. Case Number – Stratum	<u>107E</u>		

VIN 2FA8P-36X7LB [REDACTED] Model Year 1990  
Vehicle Make (specify): Ford Vehicle Model (specify): Tempo

Specific Impact No.	Location of Direct Damage	Location of Field L	Location of Maximum Crush
1	(L) quarter Panel	Beginning of (R) Rear door to (End (L) Door)? CORNER	

NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space).

Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts.

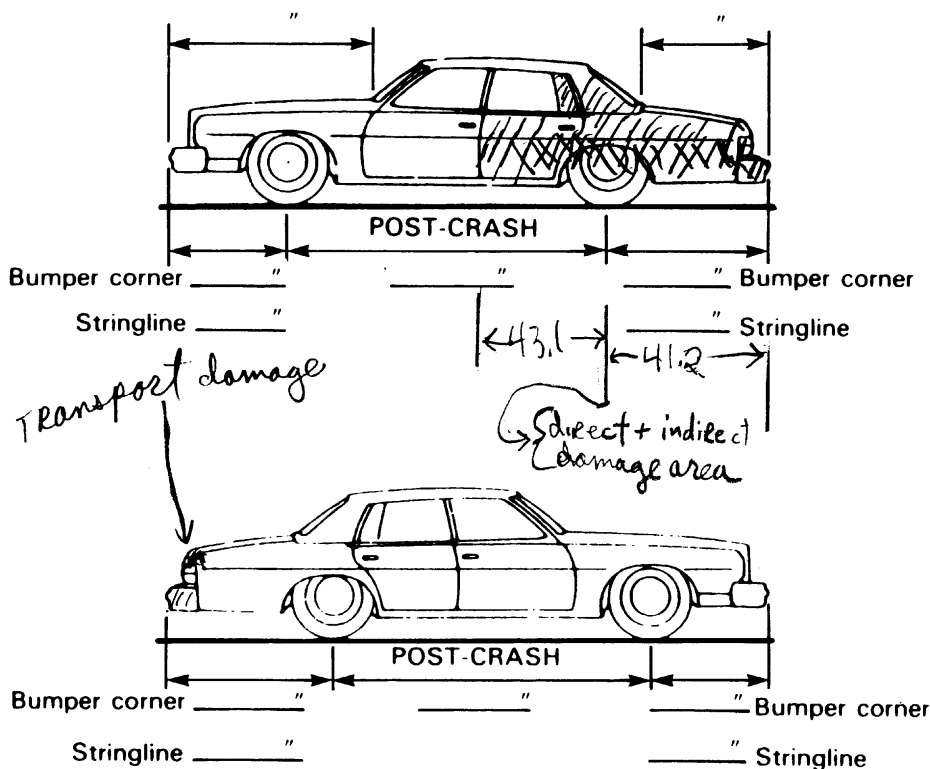
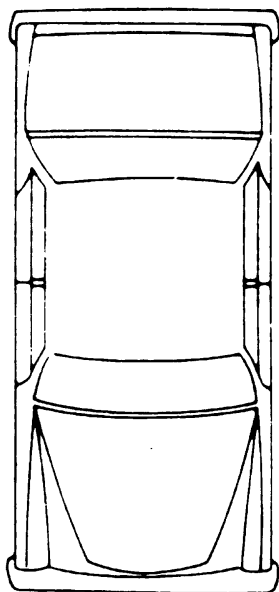
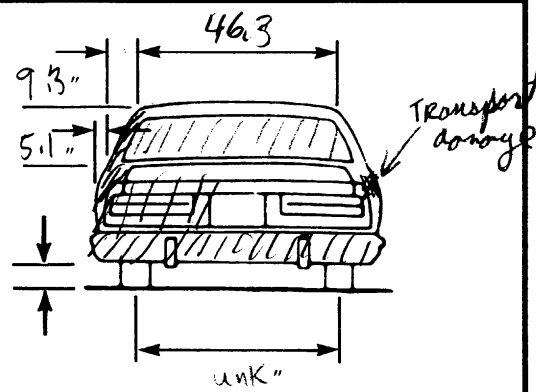
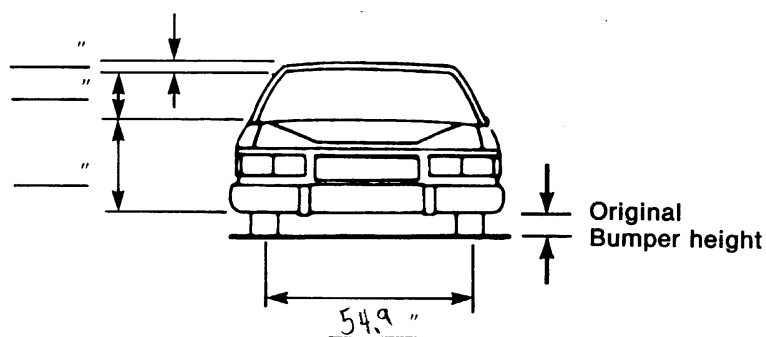
Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

Use as many lines/columns as necessary to describe each damage profile.

Specific Impact Number	Plane of C-Measurements	Direct Damage		Field L	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	± D
		Width (CDC)	Max Crush								
1	Rear Door + Bumper	73.4	4.4	84.3	4.0	3.5	0	0	4.4	1.5	
1	FS		1.5		3.5	0.4	0	0	1.5	1.5	
1	adj 'C'		2.9	84.3	0.5	3.1	0	0	2.9	0.0	-14.15
(Vehicle was disassembled before inspection, therefore above measurement are only an approximation.)											

## VEHICLE DAMAGE SKETCH

<b>TIRE—WHEEL DAMAGE</b> a. Rotation physically restricted RF <u>2</u> LF <u>2</u> RR <u>2</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>99.9</u> Overall Length <u>177.0</u> Maximum Width <u>68.3</u> Curb Weight <u>2587</u> Average Track <u>56.25</u> Front Overhang <u>N/A</u> Rear Overhang <u>N/A</u> Engine Size: cyl./ displ. <u>I-4 2.3</u> Undeformed End Width <u>N/A</u>		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF $\pm$ _____° LF $\pm$ _____° RR $\pm$ _____° LR $\pm$ _____° Within $\pm 5$ degrees
<b>TYPE OF TRANSMISSION</b> <input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic		<b>DRIVE WHEELS</b> <input checked="" type="checkbox"/> FWD <input type="checkbox"/> RWD <input type="checkbox"/> 4WD		
		Approximate Cargo Weight <u>000</u>		



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

## CODES FOR OBJECT CONTACTED

(99) Unknown event or object

[illegible]

PSU NUMBER

01

CASE NUMBER

107E

VEHICLE NUMBER

01

# INTERIOR VEHICLE FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*



ENTIRE FORM



PAGE NUMBER (S) \_\_\_\_\_



PSU NUMBER

07

CASE NUMBER

107E

VEHICLE NUMBER

02

# EXTERIOR VEHICLE FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

☒ ENTIRE FORM

☐ PAGE NUMBER (S) \_\_\_\_\_

PSU NUMBER

07

CASE NUMBER

107E

VEHICLE NUMBER

02

# INTERIOR VEHICLE FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

☒ ENTIRE FORM

☐ PAGE NUMBER (S) \_\_\_\_\_



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

## OCCUPANT INJURY FORM

Form Approved  
O.M.B. No. 2127-0021  
NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 07 3. Vehicle Number 02  
2. Case Number—Stratum 1072 4. Occupant Number 01

### INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

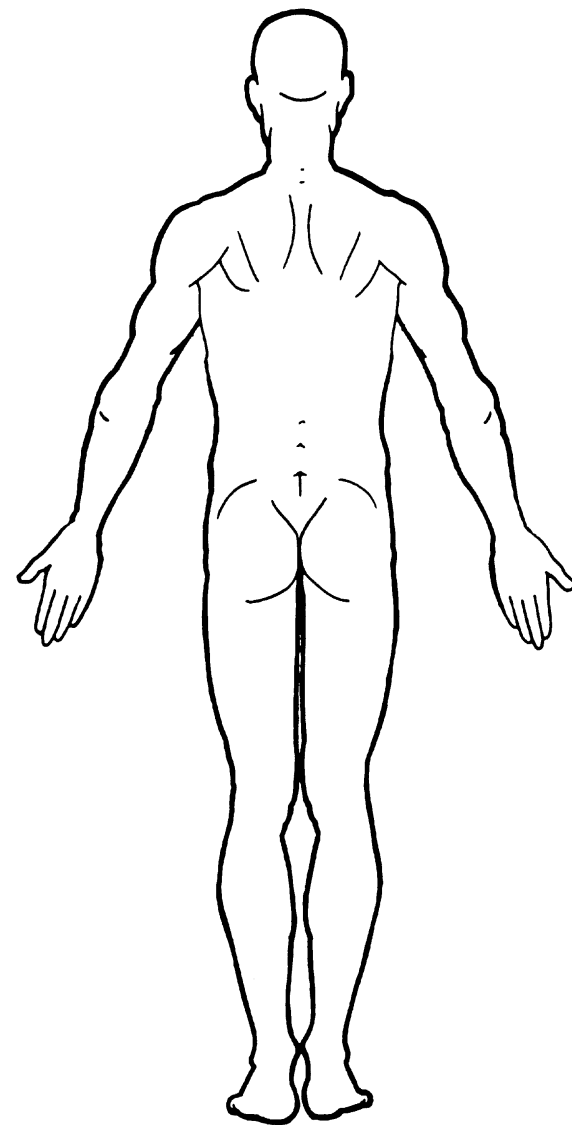
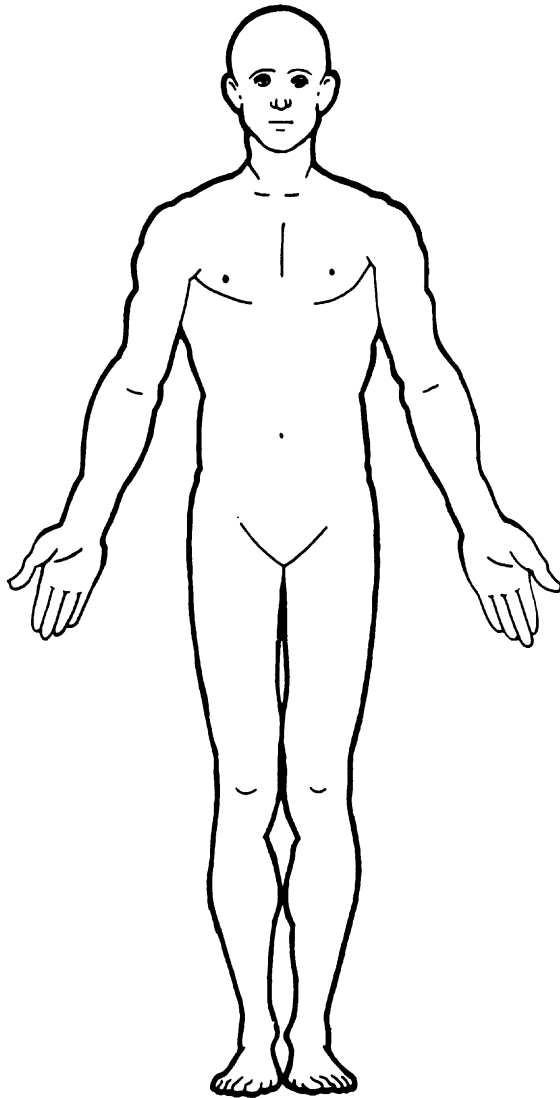
	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1st	5. <u>9</u>	6. <u>B</u>	7. <u>U</u>	8. <u>U</u>	9. <u>U</u>	10. <u>7</u>	11. <u>97</u>	12. <u>9</u>	13. <u>7</u>	14. <u>99</u>
2nd	15. ____	16. ____	17. ____	18. ____	19. ____	20. ____	21. ____	22. ____	23. ____	24. ____
3rd	25. ____	26. ____	27. ____	28. ____	29. ____	30. ____	31. ____	32. ____	33. ____	34. ____
4th	35. ____	36. ____	37. ____	38. ____	39. ____	40. ____	41. ____	42. ____	43. ____	44. ____
5th	45. ____	46. ____	47. ____	48. ____	49. ____	50. ____	51. ____	52. ____	53. ____	54. ____
6th	55. ____	56. ____	57. ____	58. ____	59. ____	60. ____	61. ____	62. ____	63. ____	64. ____
7th	65. ____	66. ____	67. ____	68. ____	69. ____	70. ____	71. ____	72. ____	73. ____	74. ____
8th	75. ____	76. ____	77. ____	78. ____	79. ____	80. ____	81. ____	82. ____	83. ____	84. ____
9th	85. ____	86. ____	87. ____	88. ____	89. ____	90. ____	91. ____	92. ____	93. ____	94. ____
10th	95. ____	96. ____	97. ____	98. ____	99. ____	100. ____	101. ____	102. ____	103. ____	104. ____

# OCCUPANT INJURY DATA

	Source of Injury Data	O.I.C.—A.I.S.					Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
		Body Region	Aspect	Lesion	System Organ	A.I.S. Severity				
11th	—	—	—	—	—	—	— — —	—	—	— — —
12th	—	—	—	—	—	—	— — —	—	—	— — —
13th	—	—	—	—	—	—	— — —	—	—	— — —
14th	—	—	—	—	—	—	— — —	—	—	— — —
15th	—	—	—	—	—	—	— — —	—	—	— — —
16th	—	—	—	—	—	—	— — —	—	—	— — —
17th	—	—	—	—	—	—	— — —	—	—	— — —
18th	—	—	—	—	—	—	— — —	—	—	— — —
19th	—	—	—	—	—	—	— — —	—	—	— — —
20th	—	—	—	—	—	—	— — —	—	—	— — —
21st	—	—	—	—	—	—	— — —	—	—	— — —
22nd	—	—	—	—	—	—	— — —	—	—	— — —
23rd	—	—	—	—	—	—	— — —	—	—	— — —

## OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location*, *Lesion*, *Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



## SOURCE OF INJURY DATA

### OFFICIAL

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (eg. discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

### UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify): \_\_\_\_\_

- (9) Police

## INJURY SOURCE

### FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

### LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): \_\_\_\_\_

### RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

### INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_

- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify): \_\_\_\_\_

- (47) Interior loose objects
- (48) Child safety seat (specify): \_\_\_\_\_

- (49) Other interior object (specify): \_\_\_\_\_

### ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

### FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

### REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

### EXTERIOR OF OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify): \_\_\_\_\_

- (68) Unknown exterior objects

### EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify): \_\_\_\_\_

- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): \_\_\_\_\_

- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify): \_\_\_\_\_

- (83) Unknown exterior of other motor vehicle

### OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify): \_\_\_\_\_

- (86) Unknown vehicle or object

### NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify): \_\_\_\_\_

- (97) Injured, unknown source

## INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

## DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

## OCCUPANT INJURY CLASSIFICATION

### O.I.C. Body Region

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

- (W) Wrist-hand

### Aspect of Injury

- (A) Anterior-front
- (B) Bilateral (rib fracture only).
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

### Lesion

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

- (G) Detachment, separation
- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection

### System/Organ

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

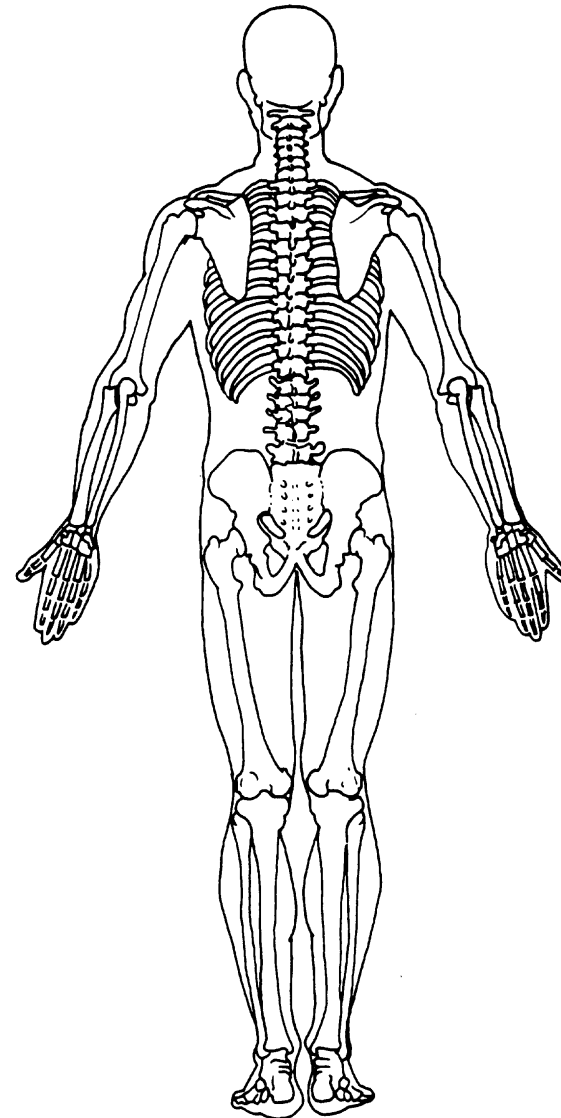
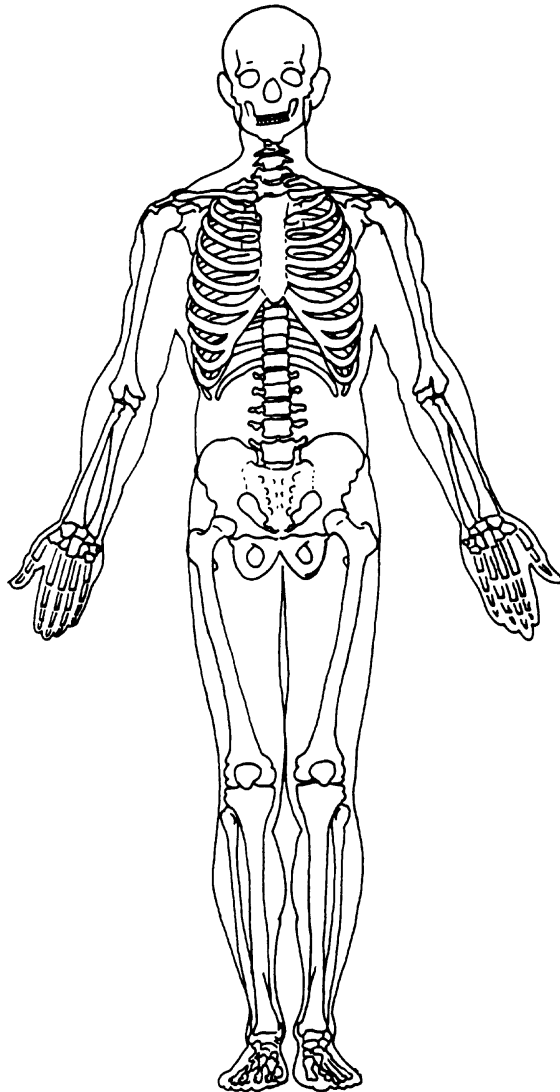
- (I) Integumentary
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary-lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae

### Abbreviated Injury Scale

- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

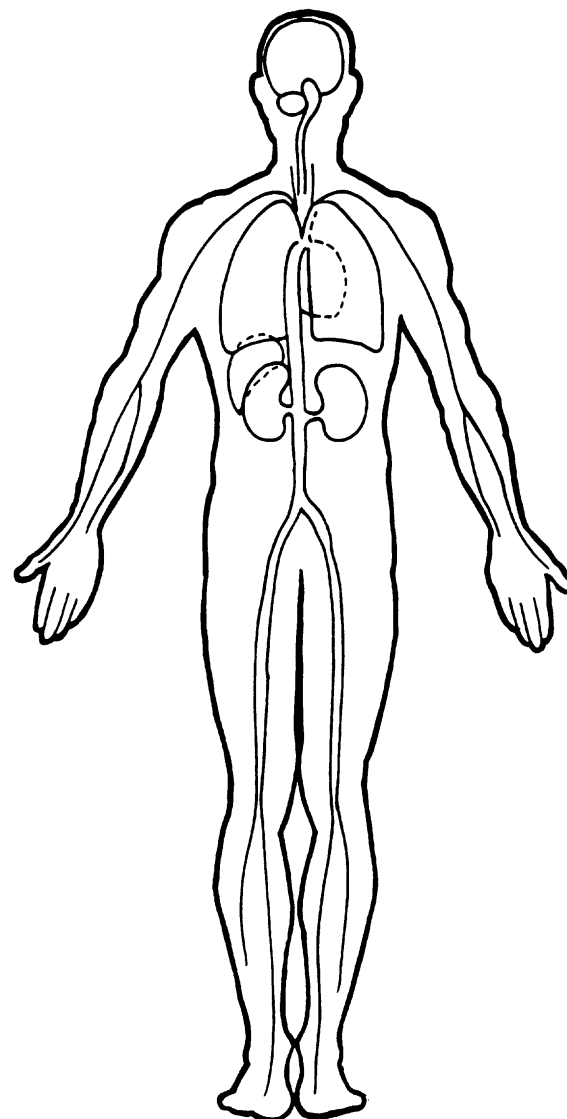
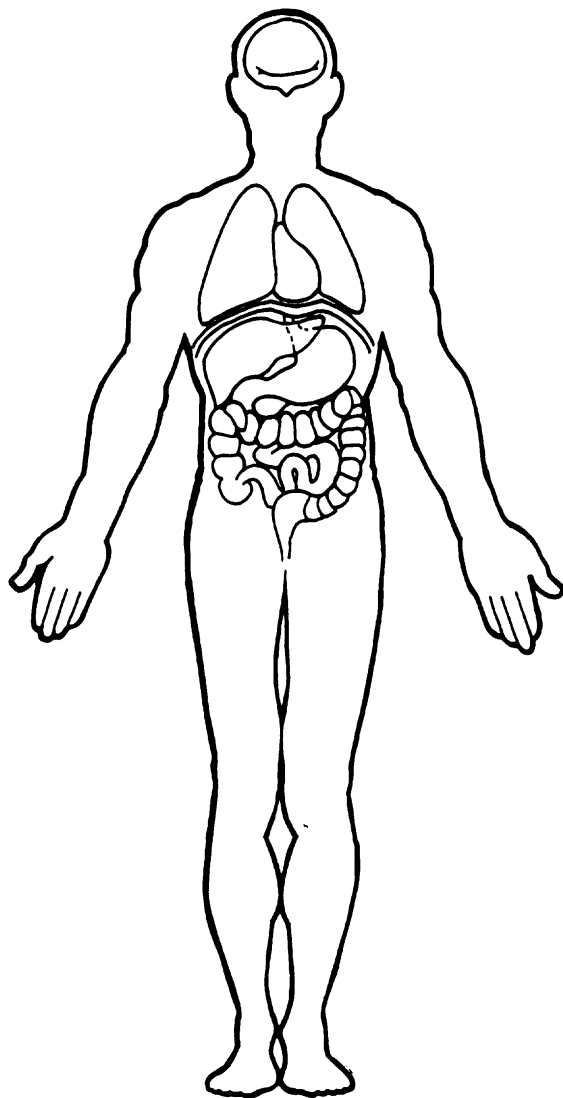
## OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location*, *Lesion*, *Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



## OFFICIAL INJURY DATA – INTERNAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





## EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	<u>07</u>	3. Vehicle Number	<u>03</u>
2. Case Number – Stratum	<u>107E</u>		

## VEHICLE IDENTIFICATION

VIN 2FABP37X9H [REDACTED] Model Year 1987  
Vehicle Make (specify): FORD Vehicle Model (specify): TEMPO

## LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L	Location of Maximum Crush
02	BEG 31" LQC	BEG L R. Bump Corner	C <sub>1</sub>
03	BEG 28' LQC	BEG L Fr. Bump Corner	C <sub>2</sub>

## CRUSH PROFILE

9.5 NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space).

Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts.

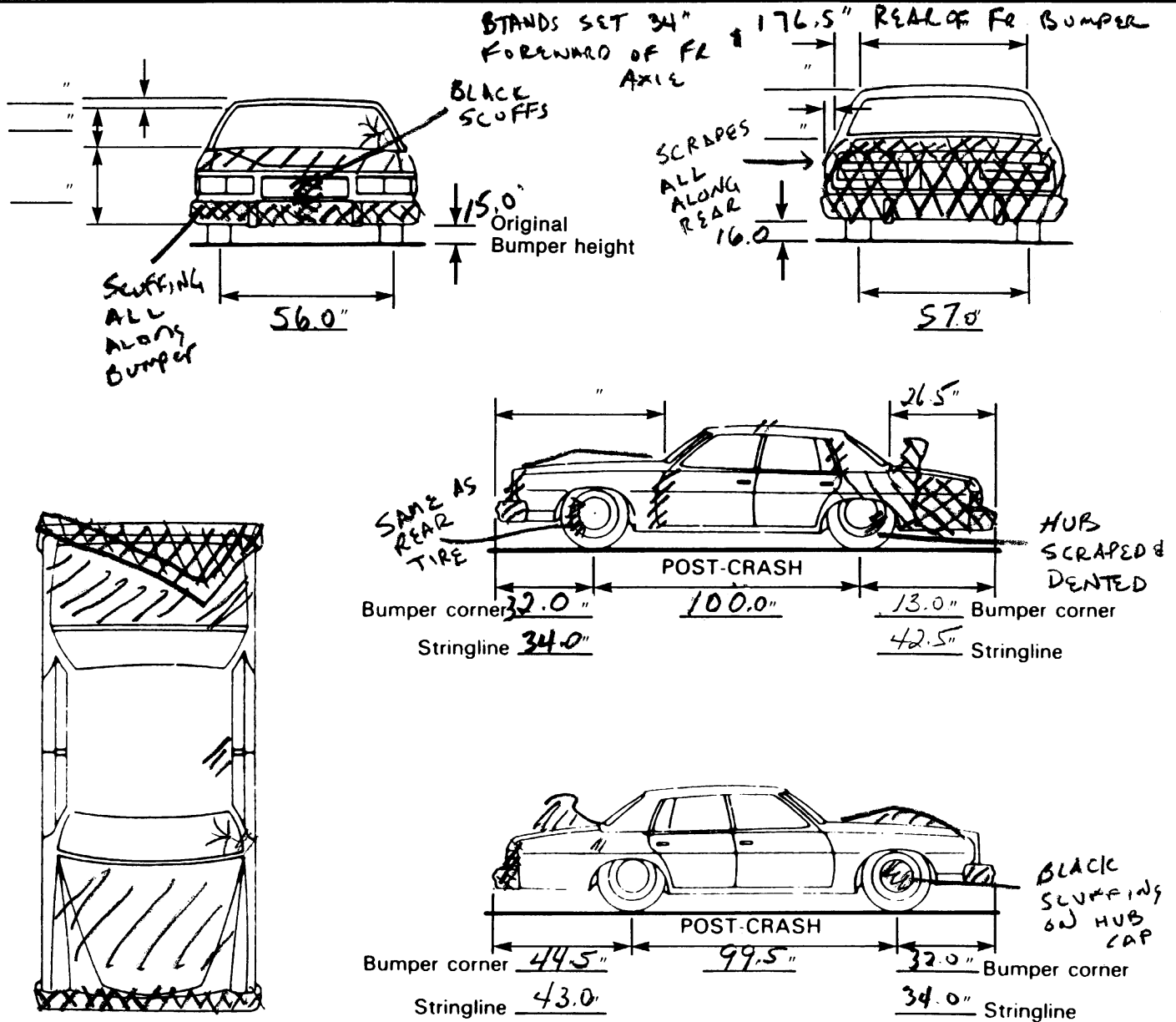
Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

Use as many lines/columns as necessary to describe each damage profile.

[illegible]

## VEHICLE DAMAGE SKETCH

<b>TIRE – WHEEL DAMAGE</b> a. Rotation physically restricted RF <u>2</u> LF <u>2</u> RR <u>2</u> LR <u>1</u> (1) Yes (2) No (8) NA (9) Unk.		<b>b. Tire deflated</b> RF <u>2</u> LF <u>2</u> RR <u>2</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>99.9</u> Overall Length <u>176.5</u> Maximum Width <u>68.3</u> Curb Weight <u>2515</u> Average Track <u>54.9/57.6</u> Front Overhang <u>33.6</u> Rear Overhang <u>43.0</u> Engine Size: cyl./ displ. <u>64-2.3/140</u> Undeformed End Width <u>62.0/62.0</u>		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF ± <u>    </u> ° LF ± <u>    </u> ° RR ± <u>    </u> ° LR <u>0</u> <u>0</u> <u>5</u> ° Within ± 5 degrees	
<b>TYPE OF TRANSMISSION</b> <input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic				<b>DRIVE WHEELS</b> <input checked="" type="checkbox"/> FWD <input type="checkbox"/> RWD <input type="checkbox"/> 4WD			
				Approximate Cargo Weight <u>0</u>			



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

## CDC WORKSHEET

## 01-30—Vehicle Number

## Noncollision

- (31) Overturn — rollover  
(32) Fire or explosion  
(33) Jackknife  
(34) Other intraunit damage (specify):

- (35) Noncollision injury  
(38) Other noncollision (specify):

- (39) Noncollision—details unknown

### Collision with Fixed Object

- (41) Tree ( $\leq 4$  inches in diameter)  
(42) Tree ( $> 4$  inches in diameter)  
(43) Shrubbery or bush  
(44) Embankment

- (45) Breakaway pole or post (any diameter)

### Nonbreakaway Pole or Post

- (50) Pole or post ( $\leq 4$  inches in diameter)  
(51) Pole or post ( $>4$  but  $\leq 12$  inches in diameter)  
(52) Pole or post ( $>12$  inches in diameter)  
(53) Pole or post (diameter unknown)

- (54) Concrete traffic barrier  
(55) Impact attenuator  
(56) Other traffic barrier (specify):

- (57) Fence  
(58) Wall  
(59) Building  
(60) Ditch or Culvert  
(61) Ground  
(62) Fire hydrant  
(63) Curb  
(64) Bridge  
(68) Other fixed object (specify):

- (69) Unknown fixed object

### Collision With Nonfixed Object

- (71) Motor vehicle not in transport  
(72) Pedestrian  
(73) Cyclist or cycle  
(74) Other nonmotorist or conveyance (specify):

- (75) Vehicle occupant  
(76) Animal  
(77) Train  
(78) Trailer, disconnected in transport  
(88) Other nonfixed object (specify):

- (89) Unknown nonfixed object

- (98) Other event (specify):

- (99) Unknown event or object

## DEFORMATION CLASSIFICATION BY EVENT NUMBER

[illegible]



## INTERIOR VEHICLE FORM

1. Primary Sampling Unit Number

07

2. Case Number – Stratum

107E

3. Vehicle Number

03

### INTEGRITY

4. Passenger Compartment Integrity

00

(00) No integrity loss

Yes, Integrity Was Lost Through

(01) Windshield

(02) Door (side)

(03) Door/hatch (rear)

(04) Roof

(05) Roof glass

(06) Side window

(07) Rear window

(08) Roof and roof glass

(09) Windshield and door (side)

(10) Windshield and roof

(11) Side and rear window

(12) Windshield and side window

(13) Door and side window

(98) Other combination of above (specify):

(99) Unknown

Door, Tailgate Or Hatch Opening

5. LF 1 6. RF 1 7. LR 3 8. RR 1 9. TG/H 0

(0) No door/gate/hatch

(1) Door/gate/hatch remained closed and operational

(2) Door/gate/hatch came open during collision

(3) Door/gate/hatch jammed shut

(8) Other (specify):

(9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then Code 0.

10. LF 0 11. RF 0 12. LR 0 13. RR 0 14. TG/H 0

(0) No door/gate/hatch or door not opened

Door, Tailgate, or Hatch Came Open During Collision

(1) Door operational (no damage)

(2) Latch/striker failure due to damage

(3) Hinge failure due to damage

(4) Door structure failure due to damage

(5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage

(6) Latch/striker and hinge failure due to damage

(8) Other failure (specify):

(9) Unknown

### GLAZING

Glazing Damage from Impact Forces

15. WS 0 16. LF 0 17. RF 0 18. LR 0 19. RR 0

20. BL 0 21. Roof 0 22. Other 0

(0) No glazing damage from impact forces

(2) Glazing in place and cracked from impact forces

(3) Glazing in place and holed from impact forces

(4) Glazing out-of-place (cracked or not) and not holed from impact forces

(5) Glazing out-of-place and holed from impact forces

(6) Glazing disintegrated from impact forces

(7) Glazing removed prior to accident

(8) No glazing

(9) Unknown if damaged

Glazing Damage from Occupant Contact

23. WS 2 24. LF 0 25. RF 0 26. LR 0 27. RR 0

28. BL 0 29. Roof 0 30. Other 0

(0) No occupant contact to glazing or no glazing

(1) Glazing contacted by occupant but no glazing damage

(2) Glazing in place and cracked by occupant contact

(3) Glazing in place and holed by occupant contact

(4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact

(5) Glazing out-of-place by occupant contact and holed by occupant contact

(6) Glazing disintegrated by occupant contact

(9) Unknown if contacted by occupant

If No Glazing Damage **And** No Occupant Contact or No Glazing, Then Code IV 31 Through IV 46 As 0

Type of Window/Windshield Glazing

31. WS 1 32. LF 0 33. RF 0 34. LR 0 35. RR 0

36. BL 0 37. Roof 0 38. Other 0

(0) No glazing contact and no damage, or no glazing

(1) AS-1 – Laminated

(2) AS-2 – Tempered

(3) AS-3 – Tempered-tinted

(4) AS-14 – Glass/Plastic

(8) Other (specify):

(9) Unknown

Window Precrash Glazing Status

39. WS 1 40. LF 0 41. RF 0 42. LR 0 43. RR 0

44. BL 0 45. Roof 0 46. Other 0

(0) No glazing contact and no damage, or no glazing

(1) Fixed

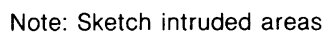
(2) Closed

(3) Partially opened

(4) Fully opened

(9) Unknown

## INTRUSION WORK SHEET

[illegible]

Document no more than the 15 most severe intrusions

**OCCUPANT AREA INTRUSION**

Note: If no intrusions, leave variables IV 47-IV 86 blank.

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47. <u>2</u> <u>1</u>	48. <u>1</u> <u>9</u>	49. <u>5</u>	50. <u>2</u>
2nd	51. _____	52. _____	53. _____	54. _____
3rd	55. _____	56. _____	57. _____	58. _____
4th	59. _____	60. _____	61. _____	62. _____
5th	63. _____	64. _____	65. _____	66. _____
6th	67. _____	68. _____	69. _____	70. _____
7th	71. _____	72. _____	73. _____	74. _____
8th	75. _____	76. _____	77. _____	78. _____
9th	79. _____	80. _____	81. _____	82. _____
10th	83. _____	84. _____	85. _____	86. _____

**LOCATION OF INTRUSION****Front Seat**

- (11) Left  
(12) Middle  
(13) Right

**Fourth Seat**

- (41) Left  
(42) Middle  
(43) Right

**Second Seat**

- (21) Left  
(22) Middle  
(23) Right

- (97) Catastrophic  
(98) Other enclosed area (specify): \_\_\_\_\_

- (99) Unknown

**Third Seat**

- (31) Left  
(32) Middle  
(33) Right

**INTRUDING COMPONENT****Interior Components**

- (01) Steering assembly  
(02) Instrument panel left  
(03) Instrument panel center  
(04) Instrument panel right  
(05) Toe pan  
(06) A-pillar  
(07) B-pillar  
(08) C-pillar  
(09) D-pillar  
(10) Door panel  
(12) Roof (or convertible top)  
(13) Roof side rail  
(14) Windshield  
(15) Windshield header  
(16) Window frame  
(17) Floor pan  
(18) Backlight header  
(19) Front seat back  
(20) Second seat back  
(21) Third seat back  
(22) Fourth seat back  
(23) Fifth seat back  
(24) Seat cushion  
(25) Back panel or door surface  
(26) Other interior component (specify): \_\_\_\_\_

- (27) Side panel - forward of the A-pillar  
(28) Side panel - rear of the A-pillar

**Exterior Components**

- (30) Hood  
(31) Outside surface of vehicle (specify): \_\_\_\_\_  
(32) Other exterior object in the environment (specify): \_\_\_\_\_  
(33) Unknown exterior object  
(97) Catastrophic  
(98) Intrusion of unlisted component(s) (specify): \_\_\_\_\_  
(99) Unknown

**MAGNITUDE OF INTRUSION**

- (1)  $\geq 1$  inch but  $< 3$  inches  
(2)  $\geq 3$  inches but  $< 6$  inches  
(3)  $\geq 6$  inches but  $< 12$  inches  
(4)  $\geq 12$  inches but  $< 18$  inches  
(5)  $\geq 18$  inches but  $< 24$  inches  
(6)  $\geq 24$  inches  
(7) Catastrophic  
(9) Unknown

**DOMINANT CRUSH DIRECTION**

- (1) Vertical  
(2) Longitudinal  
(3) Lateral  
(7) Catastrophic  
(9) Unknown

# STEERING COLUMN WORKING DIAGRAMS

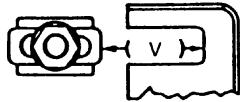
## STEERING COLUMN COLLAPSE

Steering Column Shear Module Movement



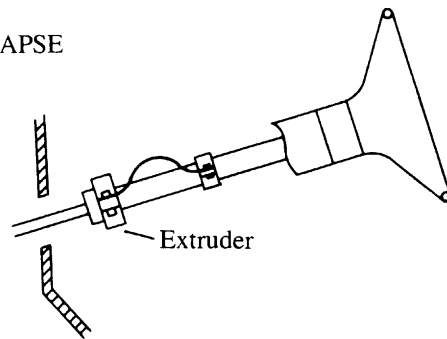
SHEAR CAPSULE

Left \_\_\_\_



Right \_\_\_\_ V = \_\_\_\_"

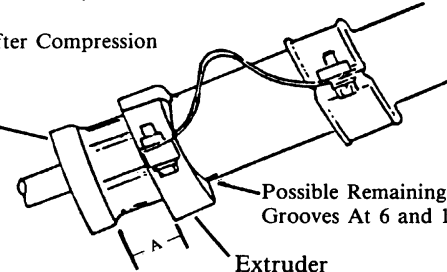
Direction and Magnitude of Steering Column Movement



Extruder

After Compression

Flare Tube



Possible Remaining Starter Grooves At 6 and 12 o'clock

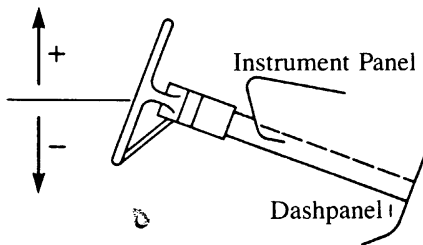
Extruder

Compression = Measurement A

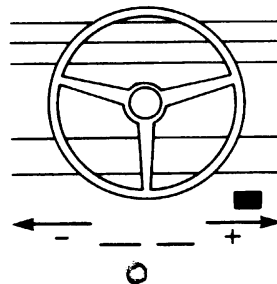
A = \_\_\_\_

## STEERING COLUMN MOVEMENT

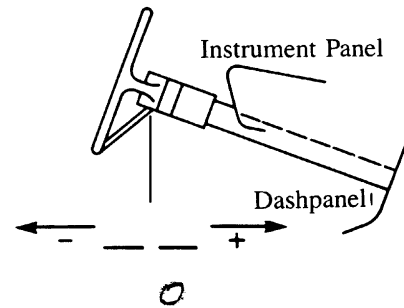
Vertical Movement



Lateral Movement



Longitudinal Movement



	COMPARISON VALUE	—	DAMAGED VALUE	=	MOVEMENT
VERTICAL		—		=	
LATERAL		—		=	
LONGITUDINAL		—		=	

## STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE	—	DAMAGED VALUE	=	DEFORMATION
	—		=	U
	—		=	U

**STEERING COLUMN****87. Steering Column Type**

- (1) Fixed column  
 (2) Tilt column  
 (3) Telescoping column  
 (4) Tilt and telescoping column  
 (8) Other column type (specify): \_\_\_\_\_

(9) Unknown

If PDOF  $\neq$  11, 12 or 1, Then Code IV88-IV91 As 96

**88. Steering Column Collapse Due to Occupant Loading**

\_\_\_\_\_ Code actual measured movement to the nearest inch. See coding manual for measurement technique(s).

- (00) No movement, compression, or collapse  
 (01-19) Actual measured value  
 (20) 20 inches or greater

Estimated movement from observation

- (81) Less than 1 inch  
 (82)  $\geq$  1 inch but  $<$  2 inches  
 (83)  $\geq$  2 inches but  $<$  4 inches  
 (84)  $\geq$  4 inches but  $<$  6 inches  
 (85)  $\geq$  6 inches but  $<$  8 inches  
 (86) Greater than or equal to 8 inches  
 (96) Not assessed (PDOF  $\neq$  11, 12, 1)  
 (97) Apparent movement, value undetermined or cannot be measured or estimated  
 (98) Nonspecified type column  
 (99) Unknown

**Direction And Magnitude of Steering Column Movement****89. Vertical Movement**

+  
- 00

**90. Lateral Movement**

+  
- 00

**91. Longitudinal Movement**

+  
- 00

Code the actual measured movement to the nearest inch. See Coding Manual for measurement technique(s)

- (00) No steering column movement  
 ( $\pm$  01 –  $\pm$  49) Actual measured value  
 ( $\pm$  50) 50 inches or greater

Estimated movement from observation

- ( $\pm$  81)  $\geq$  1 inch but  $<$  3 inches  
 ( $\pm$  82)  $\geq$  3 inches but  $<$  6 inches  
 ( $\pm$  83)  $\geq$  6 inches but  $<$  12 inches  
 ( $\pm$  84)  $\geq$  12 inches  
 (\_\_\_96) Not assessed (PDOF  $\neq$  11, 12, 1)  
 (\_\_\_97) Apparent movement  $>$  1 inch but cannot be measured or estimated  
 (\_\_\_99) Unknown

**92. Steering Rim/Spoke Deformation**

\_\_\_\_\_ Code actual measured deformation to the nearest inch.

- (0) No steering rim deformation  
 (1-5) Actual measured value  
 (6) 6 inches or more  
 (8) Observed deformation cannot be measured  
 (9) Unknown

**93. Location of Steering Rim/Spoke Deformation**

(00) No steering rim deformation

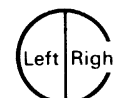
Quarter Sections

- (01) Section A  
 (02) Section B  
 (03) Section C  
 (04) Section D



Half Sections

- (05) Upper half of rim/spoke  
 (06) Lower half of rim/spoke  
 (07) Left half of rim/spoke  
 (08) Right half of rim/spoke



- (09) Complete steering wheel collapse  
 (10) Undetermined location  
 (99) Unknown

**INSTRUMENT PANEL****94. Odometer Reading**

27953 miles – Code mileage to the nearest 1,000 miles

- (000) No odometer  
 (001) Less than 1,500 miles  
 (300) 299,500 miles or more  
 (999) Unknown

Source: \_\_\_\_\_

**95. Instrument Panel Damage from Occupant Contact?**

- (0) No  
 (1) Yes  
 (9) Unknown

**96. Knee Bolsters Deformed from Occupant Contact?**

- (0) No  
 (1) Yes  
 (8) Not present  
 (9) Unknown

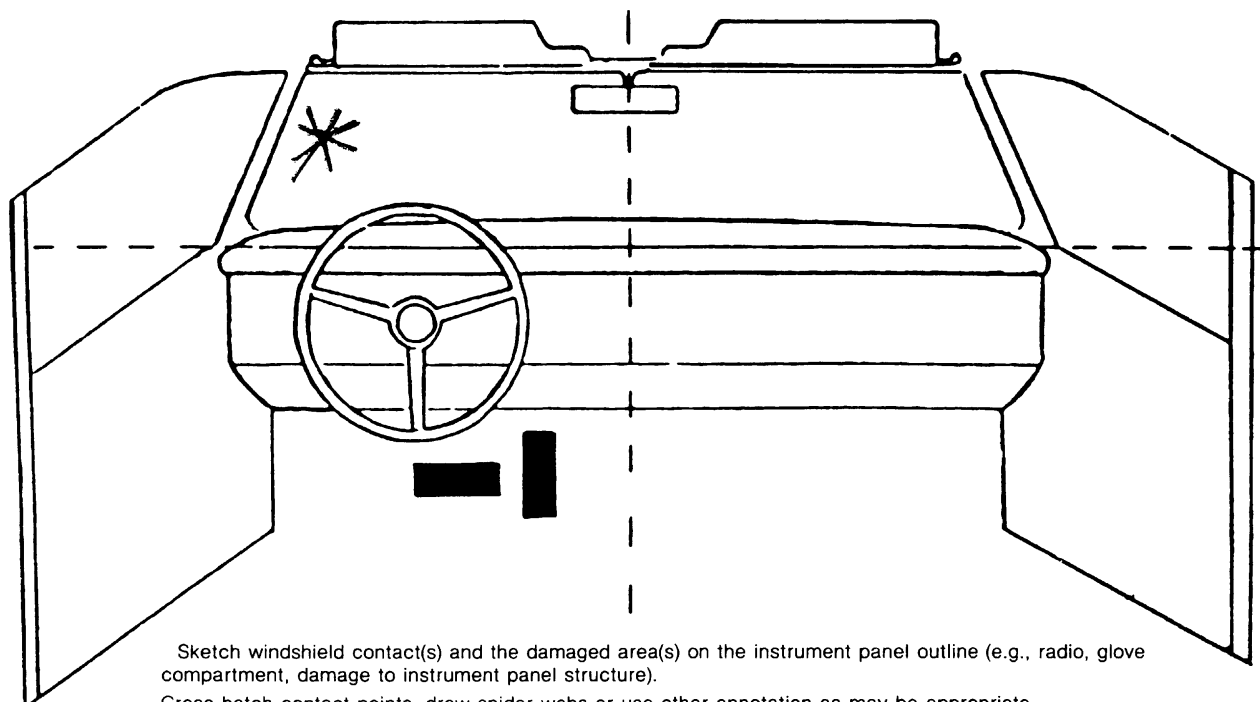
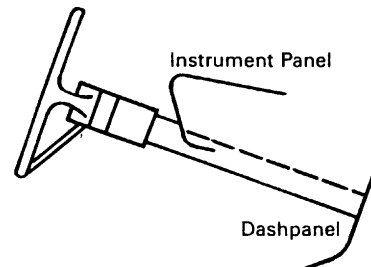
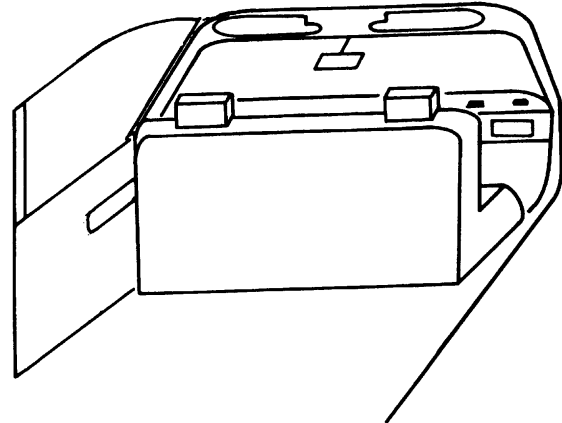
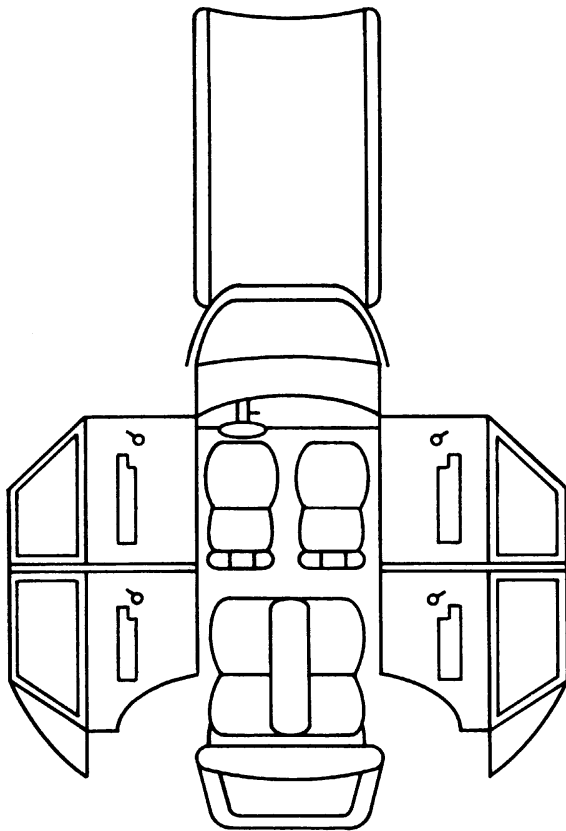
**97. Did Glove Compartment Door Open During Collision(s)?**

- (0) No  
 (1) Yes  
 (8) Not present  
 (9) Unknown



## VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure).  
 Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.  
 Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

## POINTS OF OCCUPANT CONTACT

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	01	01	HEAD	SPIDER WEB FX. IN WINDSHIELD	02
B					
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					
N					

## CODES FOR INTERIOR COMPONENTS

## FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

## LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): \_\_\_\_\_

## RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

## INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify): \_\_\_\_\_
- (47) Interior loose objects

- (48) Child safety seat (specify): \_\_\_\_\_

- (49) Other interior object (specify): \_\_\_\_\_

## ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

## FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

## REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

## CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain
- (2) Probable
- (3) Possible
- (4) Unknown

## AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F I R S T	Availability			
	Function	<i>NA</i>		
	Failure			

### Automatic (Passive) Restraint System Availability

- (0) Not equipped/not available
- (1) Airbag
- (2) Airbag disconnected (specify): \_\_\_\_\_
- (3) Airbag not reinstalled
- (4) 2 point automatic belts
- (5) 3 point automatic belts
- (6) Automatic belts destroyed or rendered inoperative
- (9) Unknown

### Automatic (Passive) Restraint Function

- (0) Not equipped/not available

#### Automatic Belt

- (1) Automatic belt in use
- (2) Automatic belt not in use
- (3) Automatic belt use unknown

#### Air Bag

- (4) Airbag deployed during accident
- (5) Airbag deployed inadvertently just prior to accident
- (6) Deployed, accident sequence undetermined
- (7) Nondeployed
- (8) Unknown if deployed
- (9) Unknown

### Did Automatic (Passive) Restraint Fail

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): \_\_\_\_\_
- (9) Unknown

**MANUAL RESTRAINTS**

NOTES: Encode the applicable data **for each seat position** in the vehicle. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
FIRST	Availability	4	0	4
	Use	00	0	00
	Failure Modes	0	0	0
SECOND	Availability	3	3	3
	Use	00	00	00
	Failure Modes	0	0	0
THIRD	Availability			
	Use			
	Failure Modes			
OTHER	Availability			
	Use			
	Failure Modes			

**Manual (Active) Belt System Availability**

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available — type unknown
- (8) Other belt (specify):

(9) Unknown

(08) Other belt used (specify):

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat — type unknown
- (18) Other belt used with child safety seat (specify):

(99) Unknown if belt used

**Manual (Active) Belt System Use**

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify):

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used — type unknown

**Manual (Active) Belt Failure Modes During Accident**

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):

- (6) Broken retractor
- (7) Combination of above (specify):

(8) Other manual belt failure (specify):

(9) Unknown

## CHILD SAFETY SEAT FIELD ASSESSMENT

When a child safety seat is present enter the occupant's number in the first row and complete the column below the occupant's number using the codes listed below. Complete a column for each child safety seat present.

Occupant Number						
1. Type of Child Safety Seat						
2. Child Safety Seat Orientation						
3. Child Safety Seat Harness Usage						
4. Child Safety Seat Shield Usage						
5. Child Safety Seat Tether Usage						
6. Child Safety Seat Make/Model	Specify Below for Each Child Safety Seat					

### 1. Type of Child Safety Seat

- (0) No child safety seat
- (1) Infant seat
- (2) Toddler seat
- (3) Convertible seat
- (4) Booster seat
- (7) Other type child safety seat (specify):  
\_\_\_\_\_

- (8) Unknown child safety seat type
- (9) Unknown if child safety seat used

### 2. Child Safety Seat Orientation

- (00) No child safety seat
- Designed for Rear Facing for This Age/Weight
- (01) Rear facing
- (02) Forward facing
- (03) Other orientation (specify):  
\_\_\_\_\_
- (04) Unknown orientation
- Designed for Forward Facing for This Age/Weight
- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify):  
\_\_\_\_\_

- (19) Unknown orientation

- Unknown Design or Orientation for This Age/Weight, or Unknown Age/Weight
- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify):  
\_\_\_\_\_

- (29) Unknown orientation

- (99) Unknown if child safety seat used

### 3. Child Safety Seat Harness Usage

### 4. Child Safety Seat Shield Usage

### 5. Child Safety Seat Tether Usage

Note: Options Below Are Used for Variables 3-5.

- (00) No child safety seat

Not Designed with Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed with Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown if Designed with Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used

- (99) Unknown if child safety seat used

### 6. Child Safety Seat Make/Model

(Specify make/model and occupant number)

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**HEAD RESTRAINTS/SEAT EVALUATION**

NOTES: Encode the applicable data for **each seat position** in the vehicle. The attributes for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F I R S T	Head Restraint Type/Damage	3	0	3
	Seat Type	01	0	01
	Seat Performance	5	0	1
S E C O N D	Head Restraint Type/Damage	0	0	0
	Seat Type	03	03	03
	Seat Performance	1	1	1
T H I R D	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			
O T H E R	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			

**Head Restraint Type/Damage by Occupant at This Occupant Position**

- (0) No head restraints
- (1) Integral – no damage
- (2) Integral – damaged during accident
- (3) Adjustable – no damage
- (4) Adjustable – damaged during accident
- (5) Add-on – no damage
- (6) Add-on – damaged during accident
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

**Seat Performance (This Occupant Position)**

- (0) No seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks failed
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify): \_\_\_\_\_

**Seat Type (This Occupant Position)**

- (00) No seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., van type)
- (09) Other seat type (specify): \_\_\_\_\_
- (99) Unknown

- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other (specify): \_\_\_\_\_

- (9) Unknown

**DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E. UNUSUAL OCCUPANT CONTACT PATTERN)**


**EJECTION/ENTRAPMENT DATA**

Complete the following if the researcher has any indications that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occupant Assessment Form.

**EJECTION**      No [ ☒ ]      Yes [    ]

Describe indications of ejection and body parts involved in partial ejection(s):

---



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Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						

**Ejection**

- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, unknown degree
- (9) Unknown

**Ejection Area**

- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear

**(7) Roof**

- (8) Other area (e.g., back of pickup, etc.) (specify):

- (9) Unknown

**Ejection Medium**

- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify):

**(5) Integral structure**

- (8) Other medium (specify):

- (9) Unknown

**Medium Status (Immediately Prior to Impact)**

- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

**ENTRAPMENT**      No [ ☒ ]      Yes [    ]

Describe entrapment mechanism: \_\_\_\_\_

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Component(s): \_\_\_\_\_

(Note in vehicle interior diagram)



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

## OCCUPANT INJURY FORM

Form Approved  
O.M.B. No. 2127-0021  
NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 07 3. Vehicle Number 03  
2. Case Number—Stratum 107E 4. Occupant Number 01

### INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1st	5. <u>9</u>	6. <u>H</u>	7. <u>u</u>	8. <u>u</u>	9. <u>u</u>	10. <u>7</u>	11. <u>97</u>	12. <u>9</u>	13. <u>7</u>	14. <u>99</u>
2nd	15. ____	16. ____	17. ____	18. ____	19. ____	20. ____	21. ____	22. ____	23. ____	24. ____
3rd	25. ____	26. ____	27. ____	28. ____	29. ____	30. ____	31. ____	32. ____	33. ____	34. ____
4th	35. ____	36. ____	37. ____	38. ____	39. ____	40. ____	41. ____	42. ____	43. ____	44. ____
5th	45. ____	46. ____	47. ____	48. ____	49. ____	50. ____	51. ____	52. ____	53. ____	54. ____
6th	55. ____	56. ____	57. ____	58. ____	59. ____	60. ____	61. ____	62. ____	63. ____	64. ____
7th	65. ____	66. ____	67. ____	68. ____	69. ____	70. ____	71. ____	72. ____	73. ____	74. ____
8th	75. ____	76. ____	77. ____	78. ____	79. ____	80. ____	81. ____	82. ____	83. ____	84. ____
9th	85. ____	86. ____	87. ____	88. ____	89. ____	90. ____	91. ____	92. ____	93. ____	94. ____
10th	95. ____	96. ____	97. ____	98. ____	99. ____	100. ____	101. ____	102. ____	103. ____	104. ____

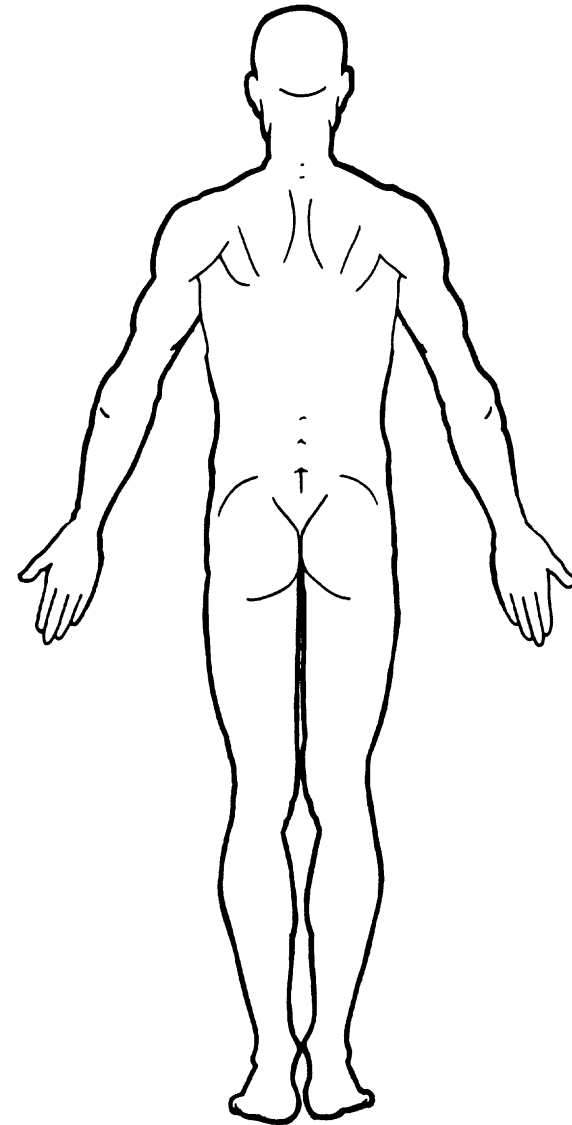
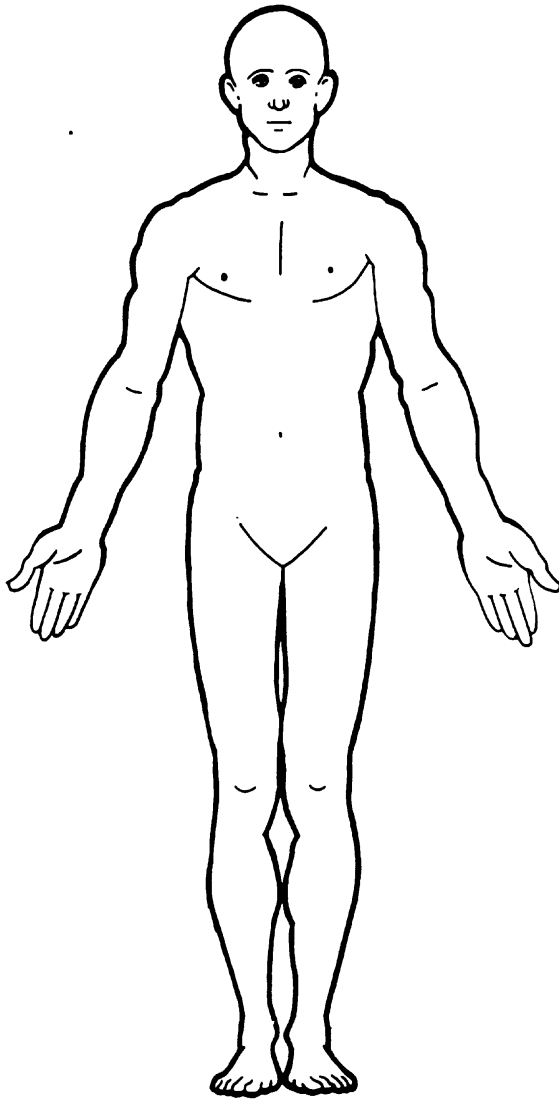


# OCCUPANT INJURY DATA

	Source of Injury Data	O.I.C.—A.I.S.					Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
		Body Region	Aspect	Lesion	System Organ	A.I.S. Severity				
11th	—	—	—	—	—	—	---	—	—	---
12th	—	—	—	—	—	—	---	—	—	---
13th	—	—	—	—	—	—	---	—	—	---
14th	—	—	—	—	—	—	---	—	—	---
15th	—	—	—	—	—	—	---	—	—	---
16th	—	—	—	—	—	—	---	—	—	---
17th	—	—	—	—	—	—	---	—	—	---
18th	—	—	—	—	—	—	---	—	—	---
19th	—	—	—	—	—	—	---	—	—	---
20th	—	—	—	—	—	—	---	—	—	---
21st	—	—	—	—	—	—	---	—	—	---
22nd	—	—	—	—	—	—	---	—	—	---
23rd	—	—	—	—	—	—	---	—	—	---

## OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location*, *Lesion*, *Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



## SOURCE OF INJURY DATA

### OFFICIAL

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (eg. discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

### UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify): \_\_\_\_\_
- (9) Police

## INJURY SOURCE

### FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

### LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): \_\_\_\_\_

### RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

### INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify): \_\_\_\_\_
- (47) Interior loose objects
- (48) Child safety seat (specify): \_\_\_\_\_
- (49) Other interior object (specify): \_\_\_\_\_

### ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

### FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

### REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

### EXTERIOR OF OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify): \_\_\_\_\_
- (68) Unknown exterior objects

### EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify): \_\_\_\_\_
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): \_\_\_\_\_
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify): \_\_\_\_\_
- (83) Unknown exterior of other motor vehicle

### OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify): \_\_\_\_\_
- (86) Unknown vehicle or object

### NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify): \_\_\_\_\_
- (97) Injured, unknown source

## INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

## DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

## OCCUPANT INJURY CLASSIFICATION

### O.I.C. Body Region

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

### (W) Wrist-hand

#### Aspect of Injury

- (A) Anterior-front
- (B) Bilateral (rib fracture only).
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

#### Lesion

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

### (G) Detachment, separation

- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection

#### System/Organ

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

### (I) Integumentary

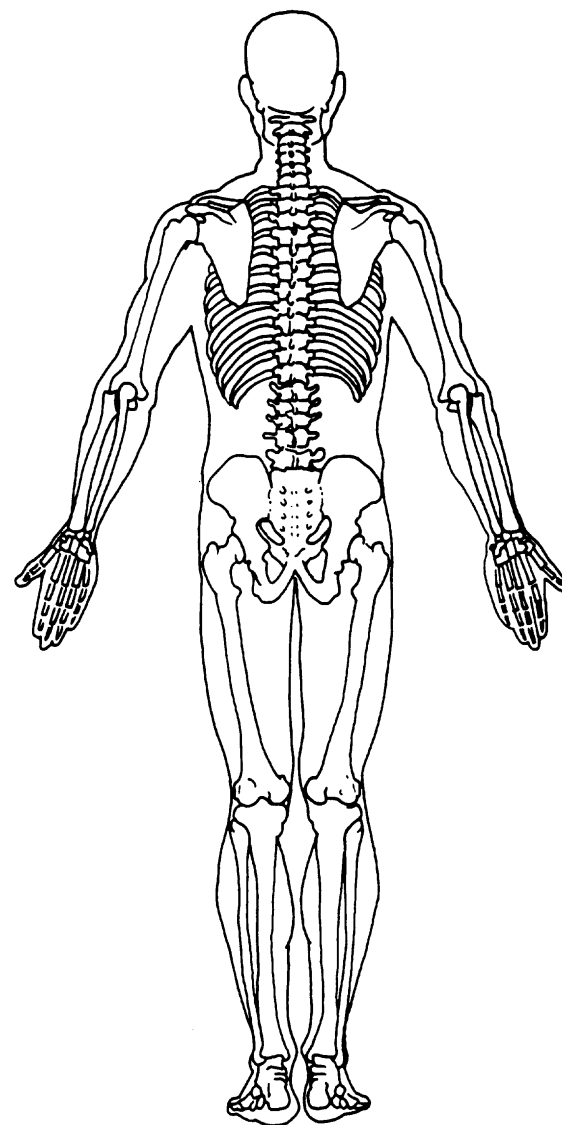
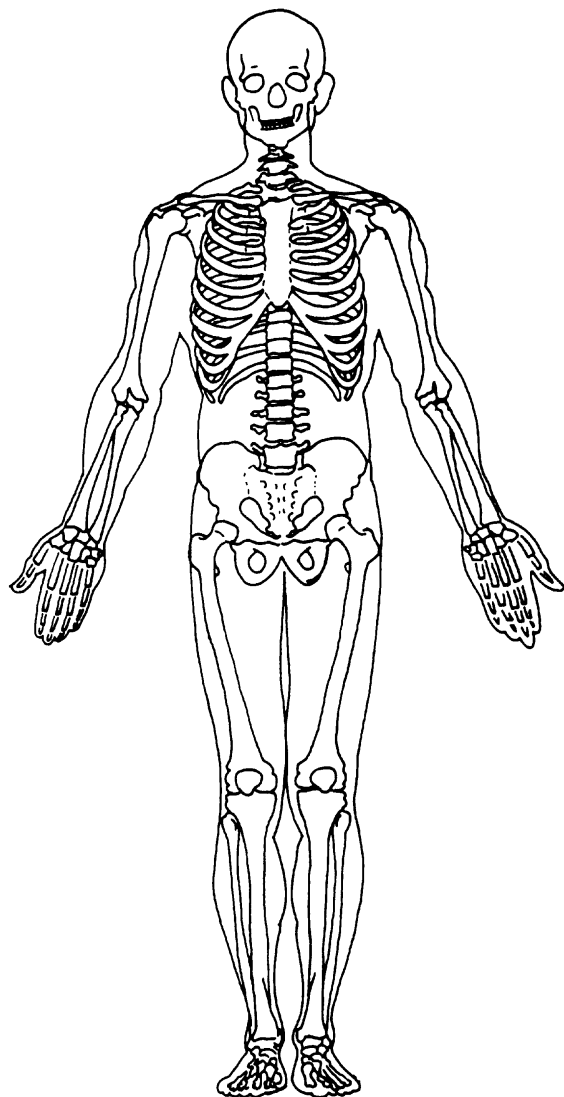
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary-lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae

#### Abbreviated Injury Scale

- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

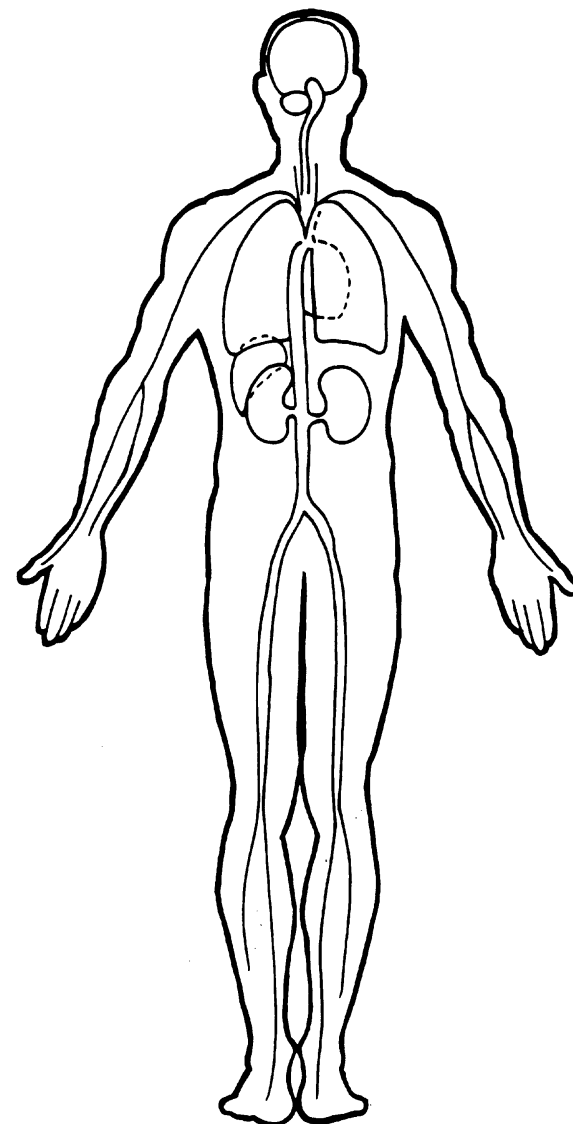
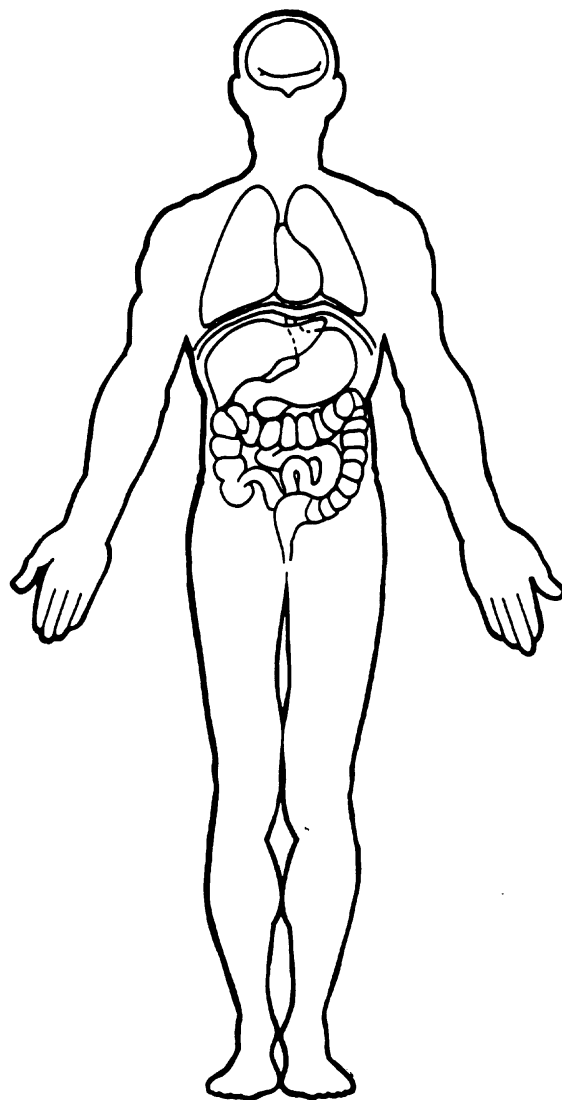
## OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location*, *Lesion*, *Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



## OFFICIAL INJURY DATA – INTERNAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





## UPDATE FORM

1. Primary Sampling Unit Number 07  
2. Case Number — Stratum 107E  
3. Vehicle Number 03  
4. Occupant Number 01 ✓

1990

Driver or Occupant Name: [REDACTED]

Address: [REDACTED]

Other Information: [REDACTED]

(Sanitize this section prior to Update submission.)

### INJURY DATA CODED ON INITIAL SUBMISSION

O.I.C. — A.I.S.										Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source						
1st	5. <u>9</u>	6. <u>H</u>	7. <u>U</u>	8. <u>U</u>	9. <u>U</u>	10. <u>7</u>	11. <u>97</u>	12. <u>9</u>	13. <u>7</u>	14. <u>99</u>		
2nd	15. —	16. —	17. —	18. —	19. —	20. —	21. — —	22. —	23. —	24. — —		
3rd	25. —	26. —	27. —	28. —	29. —	30. —	31. — —	32. —	33. —	34. — —		
4th	35. —	36. —	37. —	38. —	39. —	40. —	41. — —	42. —	43. —	44. — —		
5th	45. —	46. —	47. —	48. —	49. —	50. —	51. — —	52. —	53. —	54. — —		
6th	55. —	56. —	57. —	58. —	59. —	60. —	61. — —	62. —	63. —	64. — —		
7th	65. —	66. —	67. —	68. —	69. —	70. —	71. — —	72. —	73. —	74. — —		
8th	75. —	76. —	77. —	78. —	79. —	80. —	81. — —	82. —	83. —	84. — —		
9th	85. —	86. —	87. —	88. —	89. —	90. —	91. — —	92. —	93. —	94. — —		
10th	95. —	96. —	97. —	98. —	99. —	100. —	101. — —	102. —	103. —	104. — —		

NOTE: If necessary, keep copy of original Occupant Injury form and submit as part of update.

### UPDATED CASE INFORMATION

	INITIAL SUBMISSION	FINAL		INITIAL SUBMISSION	FINAL
GV12. Alcohol Test Results for Driver	<u>96</u>	<u>96</u>	OA35. Treatment — Mortality	<u>9</u>	<u>4</u>
OA05. Occupant's Age	<u>29</u>	<u>29</u>	OA36. Type of Medical Facility (for Initial Treatment)	<u>1</u>	<u>1</u>
OA06. Occupant's Sex	<u>2</u>	<u>2</u>	OA37. Hospital Stay	<u>99</u>	<u>00</u>
OA07. Occupant's Height	<u>99</u>	<u>99</u>	OA38. Working Days Lost	<u>99</u>	<u>99</u>
OA08. Occupant's Weight	<u>999</u>	<u>999</u>	OA39. Time to Death	<u>00</u>	<u>00</u>
OA17. Manual (Active) Belt System Availability	<u>4</u>	<u>4</u>	OA40. 1st Medically Reported Cause of Death	<u>00</u>	<u>00</u>
OA18. Manual (Active) Belt System Use	<u>00</u>	<u>04</u>	OA41. 2nd Medically Reported Cause of Death	<u>00</u>	<u>00</u>
OA21. Automatic (Passive) Restraint System Availability	<u>0</u>	<u>0</u>	OA42. 3rd Medically Reported Cause of Death	<u>00</u>	<u>00</u>
OA22. Automatic (Passive) Restraint Function	<u>0</u>	<u>0</u>	OA43. Number of Recorded Injuries for This Occupant	<u>97</u>	<u>01</u>

**INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the unofficial and official prior to initial case submission **and from subsequently** acquired medical data. Remember not to double count an injury just because it was identified from two different sources.

	Source of Injury Data	O.I.C. – A.I.S.				Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.	
		Body Region	Aspect	Lesion	System Organ					A.I.S. Severity
1st	5. <u>3</u>	6. <u>L</u>	7. <u>R</u>	8. <u>A</u>	9. <u>I</u>	10. <u>1</u>	11. <u>09</u>	12. <u>2</u>	13. <u>1</u>	14. <u>00</u>
2nd	15. ____	16. ____	17. ____	18. ____	19. ____	20. ____	21. ____	22. ____	23. ____	24. ____
3rd	25. ____	26. ____	27. ____	28. ____	29. ____	30. ____	31. ____	32. ____	33. ____	34. ____
4th	35. ____	36. ____	37. ____	28. ____	39. ____	40. ____	41. ____	42. ____	43. ____	44. ____
5th	45. ____	46. ____	47. ____	48. ____	49. ____	50. ____	51. ____	52. ____	53. ____	54. ____
6th	55. ____	56. ____	57. ____	58. ____	59. ____	60. ____	61. ____	62. ____	63. ____	64. ____
7th	65. ____	66. ____	67. ____	68. ____	69. ____	70. ____	71. ____	72. ____	73. ____	74. ____
8th	75. ____	76. ____	77. ____	78. ____	79. ____	80. ____	81. ____	82. ____	83. ____	84. ____
9th	85. ____	86. ____	87. ____	88. ____	89. ____	90. ____	91. ____	92. ____	93. ____	94. ____
10th	95. ____	96. ____	97. ____	98. ____	99. ____	100. ____	101. ____	102. ____	103. ____	104. ____

If greater than 10 injuries, code additional on Occupant Injury Data Supplement.

# OCCUPANT INJURY DATA

O.I.C.—A.I.S.

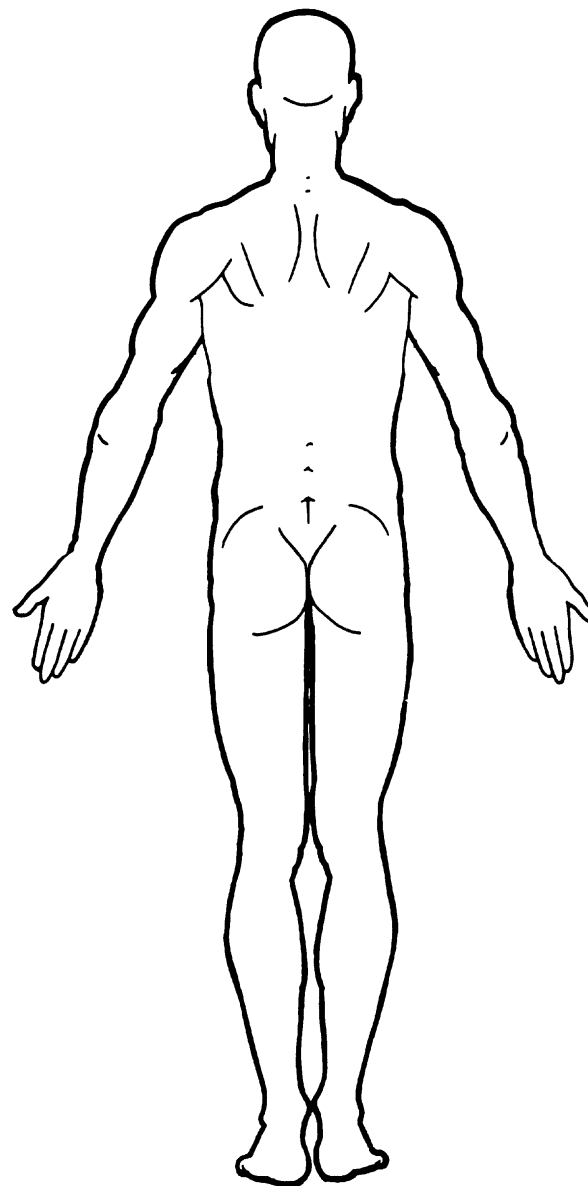
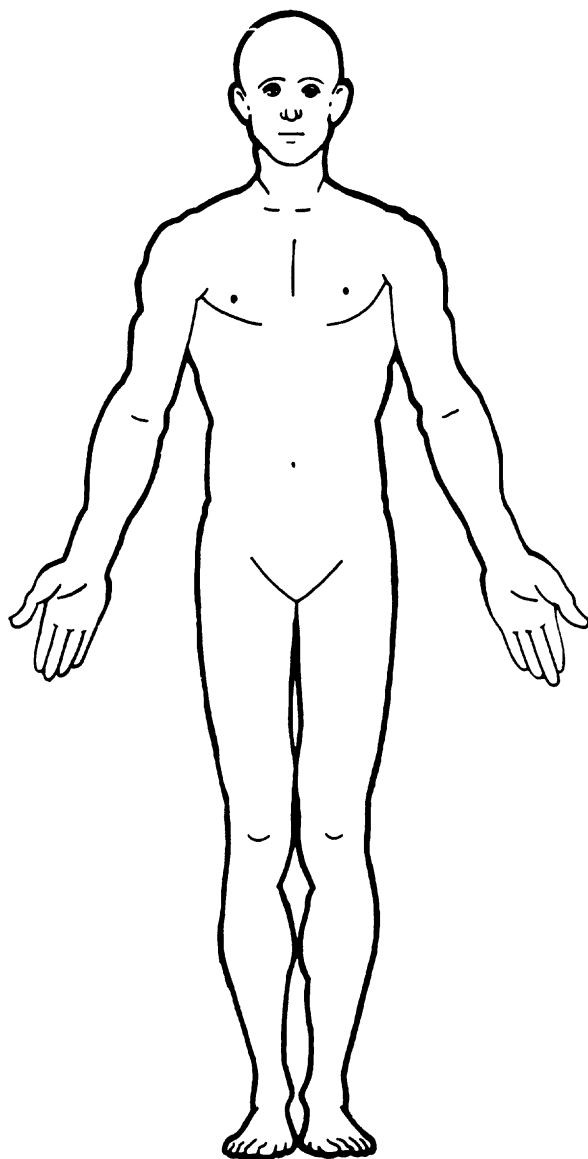
Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
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11th	—	—	—	—	—	—	—	—	—
12th	—	—	—	—	—	—	—	—	—
13th	—	—	—	—	—	—	—	—	—
14th	—	—	—	—	—	—	—	—	—
15th	—	—	—	—	—	—	—	—	—
16th	—	—	—	—	—	—	—	—	—
17th	—	—	—	—	—	—	—	—	—
18th	—	—	—	—	—	—	—	—	—
19th	—	—	—	—	—	—	—	—	—
20th	—	—	—	—	—	—	—	—	—
21st	—	—	—	—	—	—	—	—	—
22nd	—	—	—	—	—	—	—	—	—
23rd	—	—	—	—	—	—	—	—	—



## OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location*, *Lesion*, *Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



## SOURCE OF INJURY DATA

### OFFICIAL

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (eg. discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

### UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify): \_\_\_\_\_
- (9) Police

## INJURY SOURCE

### FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

### LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): \_\_\_\_\_

### RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

### INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify): \_\_\_\_\_
- (47) Interior loose objects
- (48) Child safety seat (specify): \_\_\_\_\_
- (49) Other interior object (specify): \_\_\_\_\_

### ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

### FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

### REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

### EXTERIOR OF OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify): \_\_\_\_\_
- (68) Unknown exterior objects

### EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify): \_\_\_\_\_
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): \_\_\_\_\_

- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify): \_\_\_\_\_

- (83) Unknown exterior of other motor vehicle

### OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify): \_\_\_\_\_

- (86) Unknown vehicle or object

### NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify): \_\_\_\_\_
- (97) Injured, unknown source

## INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

## DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

## OCCUPANT INJURY CLASSIFICATION

### O.I.C. Body Region

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

- (W) Wrist-hand

### Aspect of Injury

- (A) Anterior-front
- (B) Bilateral (rib fracture only)
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

### Lesion

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

- (G) Detachment, separation
- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection

### System/Organ

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

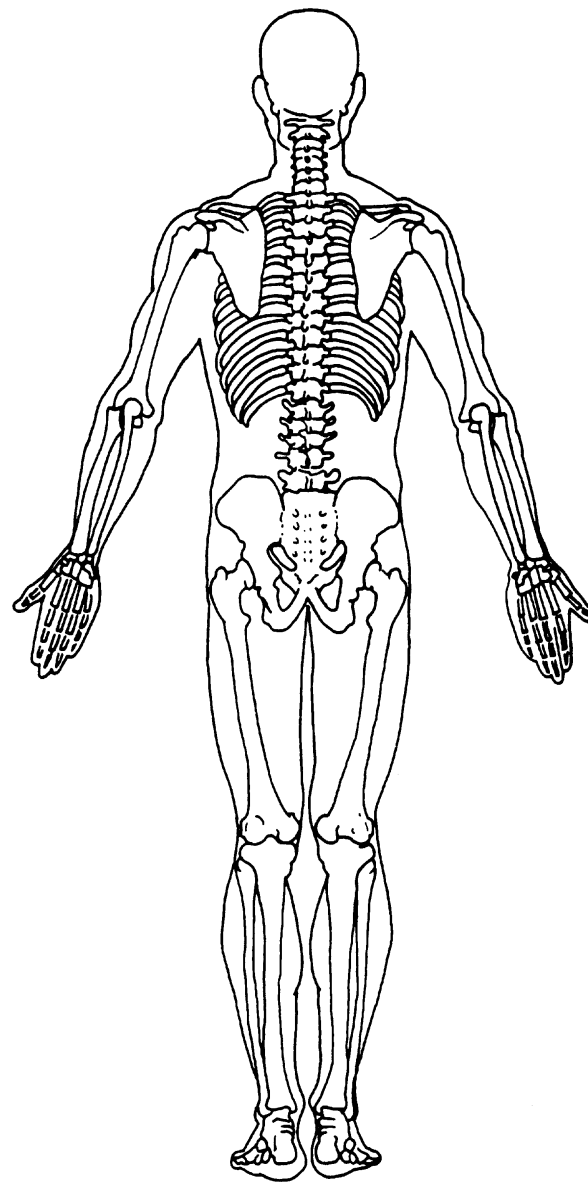
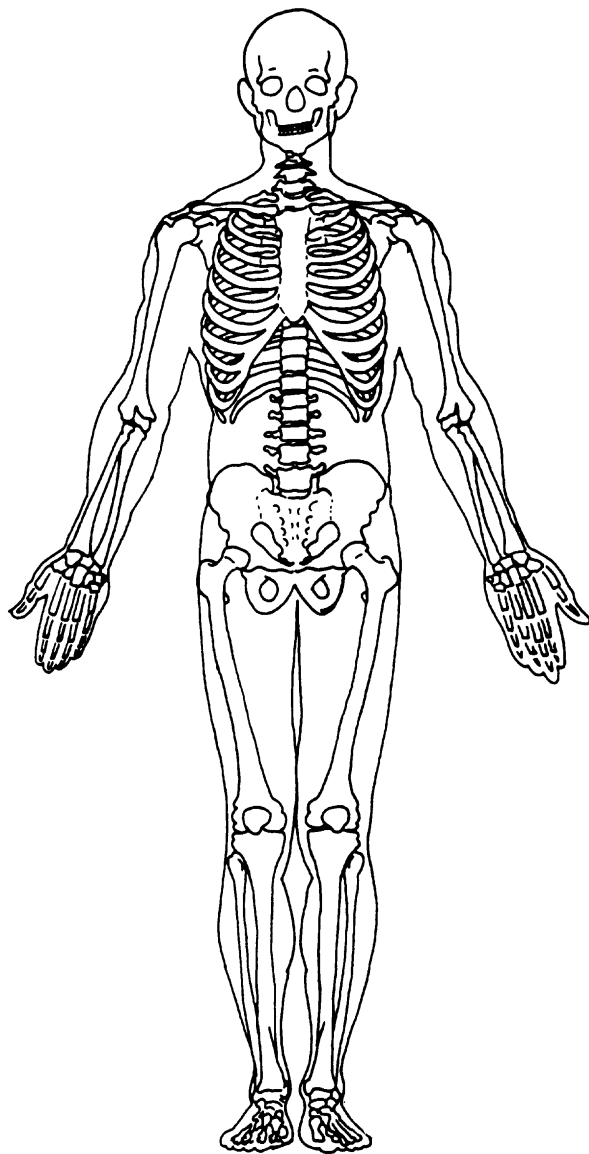
- (I) Integumentary
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary-lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae

### Abbreviated Injury Scale

- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

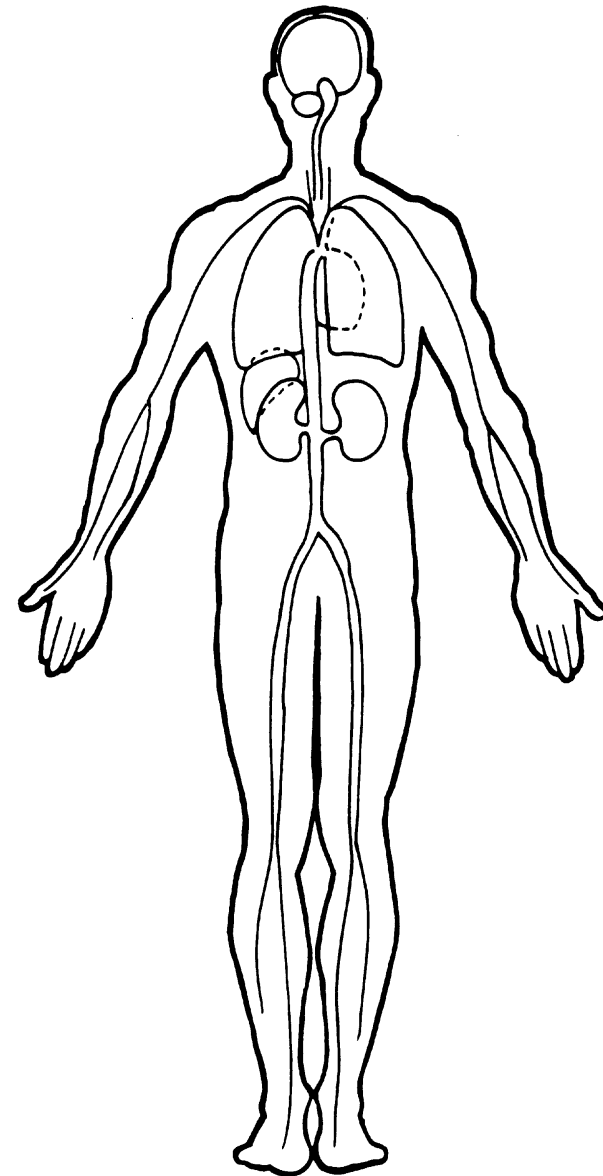
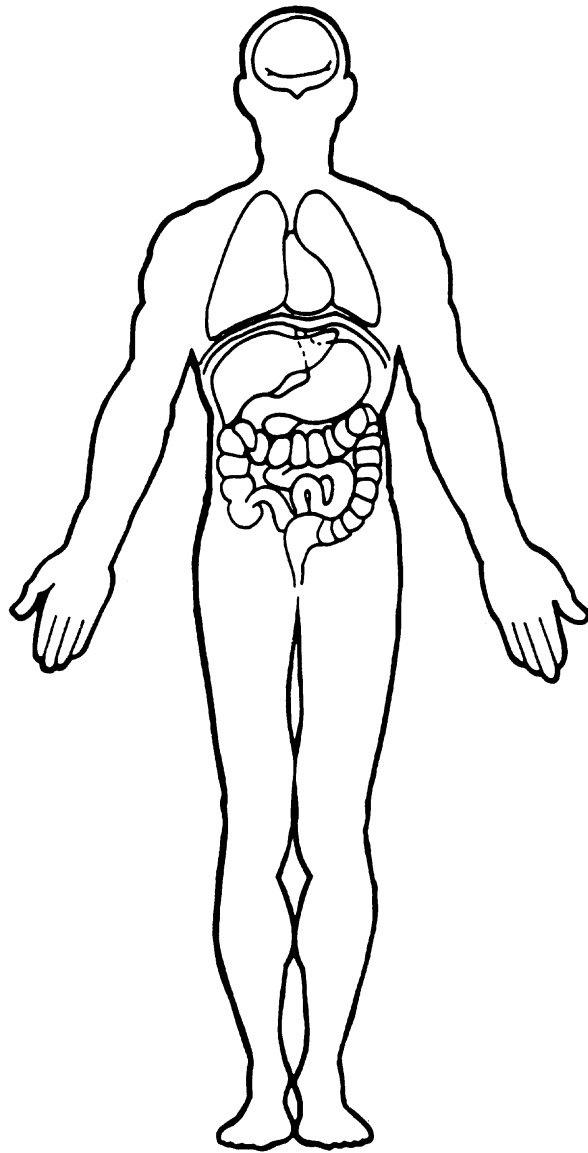
## OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



## OFFICIAL INJURY DATA – INTERNAL INJURIES

Indicate the *Location*, *Lesion*, *Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





# OLDMISS PROGRAM SUMMARY

## Identifying Title

07  
Primary  
Sampling Unit

107  
Case No.—Stratum

02  
Accident Event  
Sequence No.

90  
Date (mm dd yy) of Run

## OLDMISS Vehicle Identification

Vehicle 1	<u>1988</u>	<u>Dodge</u>	<u>Shadow</u>	<u>02</u>
Vehicle 2	<u>1987</u>	<u>FORD</u>	<u>TEMPO</u>	<u>03</u>
	Year	Make	Model	NASS Vehicle No.

## GENERAL INFORMATION

VEHICLE 1	VEHICLE 2
Size <u>2</u>	Size <u>2</u>
Weight $\frac{2513}{\text{Curb}} + \frac{172}{\text{Occupant(s)}} + \frac{0}{\text{Cargo}} = \underline{2685}$	Weight $\frac{2515}{\text{Curb}} + \frac{132}{\text{Occupant(s)}} + \frac{0}{\text{Cargo}} = \underline{2647}$
Damaged Area of Vehicle (F = Front, L = Left, R = Right, B = Back) <u>F</u> Vehicle 1	Damage Area of Vehicle (F = Front, L = Left, R = Right, B = Back) <u>B</u> Vehicle 2
Vehicle Heading Angles At Impact, in Degrees <u>+ 084°</u> Vehicle 1	Vehicle Heading Angles At Impact, in Degrees <u>+ 084°</u> Vehicle 2
Stiffness Category for Vehicle <u>9</u> Vehicle 1	Stiffness Category for Vehicle <u>2</u> Vehicle 2

## DAMAGE INFORMATION

For Which Vehicle is The Damage Known? <u>2</u>	Crush Measurements for Known Vehicle (Inches)
PDOF for Know Vehicle in Degrees (– 180 to + 180) <u>+ 170</u>	C <sub>1</sub> <u>023.0</u>
Damage Length in Inches L for Known Vehicle <u>062.0</u>	C <sub>2</sub> <u>021.0</u>
	C <sub>3</sub> <u>020.0</u>
	C <sub>4</sub> <u>014.0</u>
	C <sub>5</sub> <u>006.0</u>
	C <sub>6</sub> <u>000.0</u>
	Damage Midpoint Offset (D) for Known Vehicle (Inches) <u>+ 007.0</u>
	Estimated Damage Midpoint Offset (D) for Unknow Vehicle (Inches) <u>+ 000.0</u>

## SUMMARY OF OLDMISPC RESULTS

mass xc run for 07-107e

## SPEED CHANGE (DAMAGE)

	RESULTANT MPH      (KPH)	LONGITUDINAL MPH      (KPH)	LATERAL MPH      (KPH)	PDOF DEG
VEH #1 (ESTIMATED)	27.57 ( 44.36)	-27.15 (-43.68)	4.82 ( 7.75)	350.00
VEH #2 (KNOWN)	27.97 ( 45.00)	27.54 ( 44.31)	-4.86 ( -7.81)	170.00

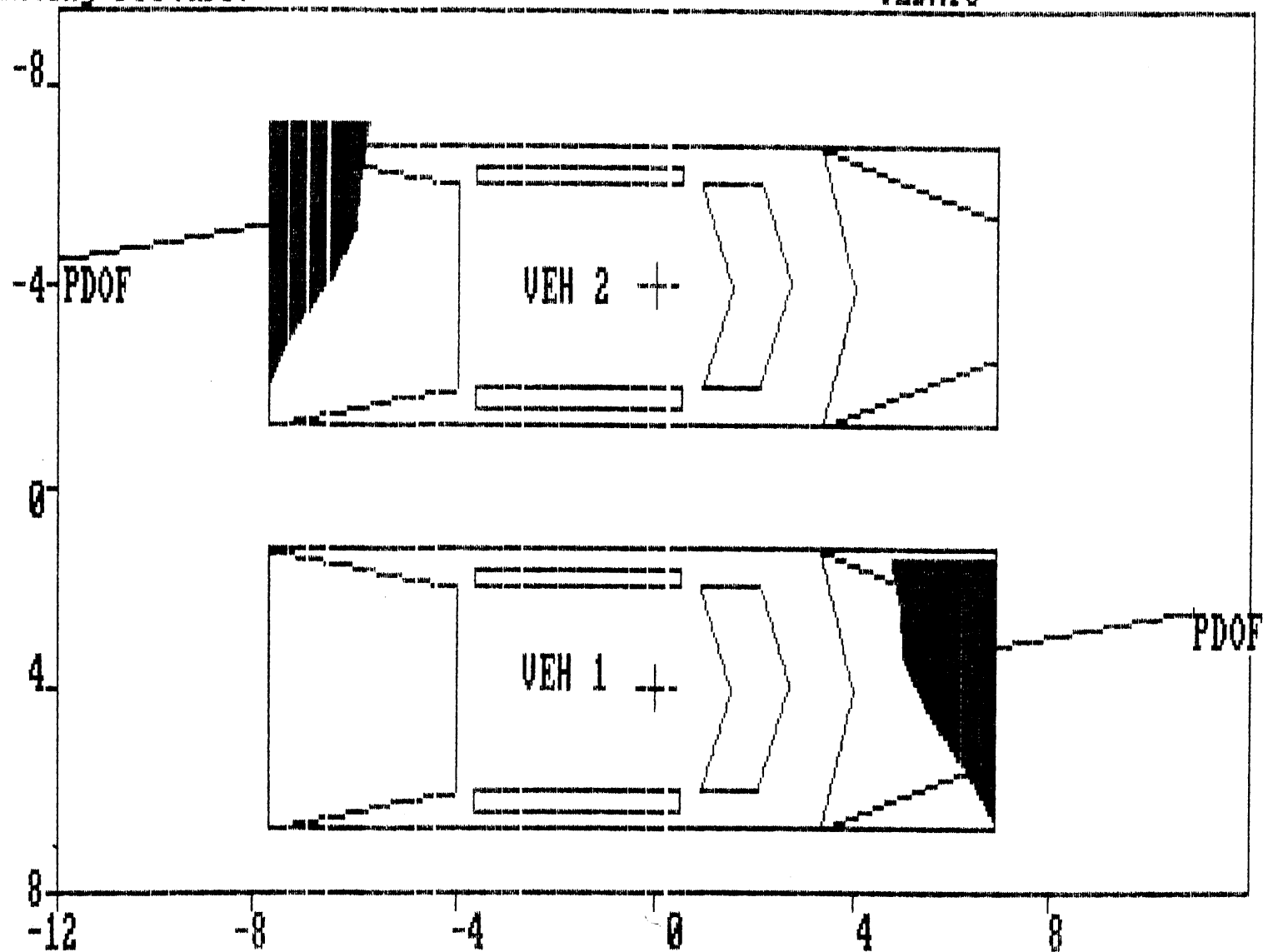
	ENERGY FT-LBS      (NT-M)	FORCE LBS      (NT)
VEH #1 (ESTIMATED)	73510.6 ( 99657.1)	61737.9 (274610.1)
VEH #2 (KNOWN)	68633.9 ( 93045.9)	61737.9 (274610.1)

# SUMMARY OF DAMAGE DATA

VEHICLE #1 (ESTIMATED DAMAGE DIMENSION)			VEHICLE #2 (KNOWN DAMAGE DIMENSION)		
	IN	(CM)		IN	(CM)
L-----	62.0	157.5	L-----	62.0	157.5
C1-----	25.1	63.7	C1-----	23.0	58.4
C2-----	22.9	58.3	C2-----	21.0	53.3
C3-----	21.9	55.6	C3-----	20.0	50.8
C4-----	15.4	39.2	C4-----	14.0	35.6
C5-----	6.9	17.5	C5-----	6.0	15.2
C6-----	.5	1.2	C6-----	.0	.0
D-----	.0	.0	D-----	-7.0	-17.8

## VEHICLE INFORMATION

VEHICLE #1 (FRONT DAMAGE UNKNOWN)		VEHICLE #2 (REAR DAMAGE KNOWN)	
SIZE-----	2	SIZE-----	2
STIFFNESS--	9	STIFFNESS--	2
SIDE-----	F	SIDE-----	B
HANGL-----	84.0 DEG	HANGL-----	84.0 DEG
WEIGHT-----	2685.0 LBS (1217.7 KG)	WEIGHT-----	2647.0 LBS (1200.5 KG)
MASS-----	6.949 LB-SEC**2/IN	MASS-----	6.850 LB-SEC**2/IN
	( 78.51 NT-SEC**2/CM)		( 77.40 NT-SEC**2/CM)
RADIUS		RADIUS	
GYRATION--	2951.0 IN**2	GYRATION--	2951.0 IN**2
	( 19038.7 CM**2)		( 19038.7 CM**2)



DAMAGE DESCRIPTION: VEHICLE 2 KNOWN





# OLDMISS PROGRAM SUMMARY

<b>Identifying Title</b>			
<u>07</u> Primary Sampling Unit	<u>107</u> Case No.—Stratum	<u>02</u> Accident Event Sequence No.	_____ Date (mm dd yy) of Run
<b>OLDMISS Vehicle Identification</b>			
Vehicle 1	<u>1987</u> Year	<u>Ford</u> Make	<u>Tempo</u> Model
Vehicle 2	<u>1982</u> Year	<u>Subaru</u> Make	<u>GLF</u> Model
			<u>03</u> NASS Vehicle No.
<b>GENERAL INFORMATION</b>			
VEHICLE 1		VEHICLE 2	
Size <u>2</u>		Size <u>1</u>	
Weight ____ + ____ + ____ = <u>2647</u> Curb Occupant(s) Cargo		Weight ____ + ____ + ____ = <u>2120</u> Curb Occupant(s) Cargo	
Damaged Area of Vehicle (F = Front, L = Left, R = Right, B = Back) <u>BF</u> Vehicle 1		Damage Area of Vehicle (F = Front, L = Left, R = Right, B = Back) <u>B</u> Vehicle 2	
Vehicle Heading Angles At Impact, in Degrees <u>+ 084°</u> Vehicle 1		Vehicle Heading Angles At Impact, in Degrees <u>+ 084°</u> Vehicle 2	
Stiffness Category for Vehicle <u>2</u> Vehicle 1		Stiffness Category for Vehicle <u>1</u> Vehicle 2	
<b>DAMAGE INFORMATION</b>			
For Which Vehicle is The Damage Known? <u>1</u>		Crush Measurements for Known Vehicle (Inches)	
PDOF for Know Vehicle in Degrees (– 180 to + 180) <u>+ 000</u>		C <sub>1</sub> ____ <u>3</u> . <u>5</u>	
Damage Length in Inches L for Known Vehicle <u>62</u>		C <sub>2</sub> ____ <u>1</u> . ____	
		C <sub>3</sub> ____ <u>1</u> . ____	
		C <sub>4</sub> ____ <u>1</u> . ____	
		C <sub>5</sub> ____ <u>5</u> . ____	
		C <sub>6</sub> ____ <u>0</u> . ____	
		Damage Midpoint Offset (D) for Known Vehicle (Inches) <u>+ 0</u> . <u>5</u>	
		Estimated Damage Midpoint Offset (D) for Unknow Vehicle (Inches) <u>+</u> ____ . <u>0</u>	

## SUMMARY OF OLDNISPC RESULTS

mass xc run for 07-107

## SPEED CHANGE (DAMAGE)

	RESULTANT MPH      (KPH)	LONGITUDINAL MPH      (KPH)	LATERAL MPH      (KPH)	PDOF DEG
VEH #1 (KNOWN)	8.43 ( 13.57)	-8.43 (-13.57)	.00 ( .00)	.00
VEH #2 (ESTIMATED)	10.53 ( 16.94)	10.53 ( 16.94)	.00 ( .00)	180.00

	ENERGY FT-LBS      (NT-M)	FORCE LBS      (NT)
VEH #1 (KNOWN)	5101.5 ( 6916.0)	18091.6 ( 80471.4)
VEH #2 (ESTIMATED)	9078.6 ( 12307.7)	22466.2 ( 99929.7)

## SUMMARY OF DAMAGE DATA

BEST AVAILABLE

VEHICLE #1  
(KNOWN DAMAGE DIMENSION)

	IN	(CM)
L-----	62.0	157.5
C1-----	.5	1.3
C2-----	1.0	2.5
C3-----	1.0	2.5
C4-----	1.0	2.5
C5-----	.5	1.3
C6-----	.0	.0
D-----	-.5	-1.3

VEHICLE #2  
(ESTIMATED DAMAGE DIMENSION)

	IN	(CM)
L-----	60.8	154.4
C1-----	.1	.3
C2-----	.1	.3
C3-----	.1	.3
C4-----	.1	.3
C5-----	.1	.3
C6-----	.1	.3
D-----	.0	.0

## VEHICLE INFORMATION

VEHICLE #1  
(FRONT DAMAGE KNOWN)

SIZE-----	2
STIFFNESS--	2
SIDE-----	F
HANGL-----	84.0 DEG
WEIGHT-----	2647.0 LBS (1200.5 KG)
MASS-----	6.850 LB-SEC**2/IN
	( 77.40 NT-SEC**2/CM)
RADIUS	
GYRATION---	2951.0 IN**2
	( 19038.7 CM**2)

VEHICLE #2  
(REAR DAMAGE UNKNOWN)

SIZE-----	1
STIFFNESS--	1
SIDE-----	B
HANGL-----	84.0 DEG
WEIGHT-----	2120.0 LBS ( 961.5 KG)
MASS-----	5.487 LB-SEC**2/IN
	( 61.99 NT-SEC**2/CM)
RADIUS	
GYRATION---	2006.0 IN**2
	( 12941.9 CM**2)

HH1001 2 If TREATMENT 0A35 equals 9, then MEDICAL FACILITY 0A36 should  
HH1002 equal 9.

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1990 NATIONAL ACCIDENT SAMPLING SYSTEM

ERROR SUMMARY SCREEN

1991

CURRENT VERSION: 3.04

FORM NAME	NUMBER OF DOLLAR SIGNS	NUMBER OF LEVEL 1 ERRORS	NUMBER OF LEVEL 2 ERRORS	VERSION NUMBER CONSISTENT
Accident	0	0	0	Y
General Vehicle	0	0	0	Y
Vehicle Exterior	0	0	0	Y
Vehicle Interior	0	0	0	Y
Occupant Assessment	0	0	1	Y
Occupant Injury	0	0	0	N
Total Inter Errors		0	0	
Total Case Errors	0	0	1	



**NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM**

HS Form 434B (Rev. 1/90)

[illegible]



PSU 07-107E (1990) #1



PSU 07-107E (1990) #2





PSU 07-107E (1990) #3



PSU 07-107E (1990) #4



PSU 07-107E (1990) #5



PSU 07-107E (1980) #6



PSU 07-107E (1990) #7  
Best Available



PSU 07-107E (1990) #8



**PSU 07-107E (1990) #9**  
**Best Available**



**PSU 07-107E (1990) #10**  
**Best Available**





**PSU 07-107E (1990) #11**  
**Best Available**



**PSU 07-107E (1990) #12**  
**Best Available**



PSU 07-107E (1990) #13



PSU07-107E (1990) #14



**PSU 07-107E (1990) #15**  
**Best Available**



**PSU 07-107E (1990) #16**  
**Best Available**



PSU 07-107E (1990) #17



PSU 07-107E (1990) #18





PSU 07-107E (1990) #19



PSU 07-107E (1990) #20



PSU 07-107E (1990) #21  
Best Available



PSU 07-107E (1980) #22



PSU 07-107E (1990) #23



PSU 07-107E (1980) #24



**PSU07-107E (1990) #25**  
**Best Available**



**PSJ 07-107E (1990) #26**  
**Best Available**





PSU 07-107E (1990) #27